

STANDARD STOCK PONDEROSA PINE DOORS

(Third Edition)

COMMERCIAL STANDARD CS120-48

[Supersedes CS120-46]

Effective Date for New Production from November 20, 1948



**A RECORDED VOLUNTARY STANDARD
OF THE TRADE**

UNITED STATES DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

COMMODITY STANDARDS

Simplified Practice Recommendations and Commercial Standards are developed by manufacturers, distributors, and users in cooperation with the Commodity Standards Division of the National Bureau of Standards. The purpose of Simplified Practice Recommendations is to eliminate avoidable waste through the establishment of standards of practice for stock sizes and varieties of specific commodities that currently are in general production and demand. The purpose of Commercial Standards is to establish standard methods of test, rating, certification, and labeling of commodities, and to provide uniform bases for fair competition.

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COMMERCIAL STANDARD FOR STANDARD STOCK PONDEROSA PINE DOORS

At the instance of the National Door Manufacturers Association, a recommended commercial standard for ponderosa pine doors was circulated, on May 31, 1944, to manufacturers, testing laboratories, distributors, and consumers for approval. This standard was accepted by the trade and issued by the United States Department of Commerce as Commercial Standard CS120-44. A revision of the standard, designated CS120-46, became effective in 1946.

On July 28, 1948, a recommended revision of CS120-46, submitted by the National Door Manufacturers Association and approved by the standing committee, was circulated for written acceptance. Those concerned have since accepted and approved the revised standard as shown herein.

Project Manager: J. W. MEDLEY, Commodity Standards Division,
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National Bureau of Standards.

COMMERCIAL STANDARD CS120-48

for

STANDARD STOCK PONDEROSA PINE DOORS¹ (THIRD EDITION)

PURPOSE

1. The purpose of this commercial standard is to establish standard specifications and sizes for ponderosa pine standard stock doors to guide producers, distributors, architects, builders, and the public; to provide a uniform basis for guaranteeing compliance through the use of labels or certifications; to avoid delays and misunderstandings; and to effect economies from the producer to the ultimate user through a wider utilization of standard ponderosa pine doors.

2. In the development of this standard every effort has been made to include designs that will permit freedom of architectural expression. Custom-made ponderosa pine doors will continue to be available for all types of architectural designing.

3. To meet the modern trend toward economy and simplification of installation, doors may be specified "Prefit" to the exact size required. (See par. 12.) Doors will be mortised for locks and cut for hinges when so specified.

SCOPE

4. This standard provides minimum specifications for stock ponderosa pine doors in four nominal thicknesses, $\frac{3}{4}$, $1\frac{1}{8}$, $1\frac{3}{8}$, and $1\frac{3}{4}$ inches. It covers construction and grades, and tolerances for these requirements.

4a. There are standard stock lay-outs and designs for the following:

Door	Grade	Sizes	Illus- trations
		Page	Page
Blind or Summer ..	No. 1	7	26
Combination	No. 1	7	26
Cupboard	No. 1 and No. 1F	7	23
Exterior	No. 1, No. 1F, No. 2, and No. 2F	6-7	10-21
French or Casement ..	No. 1	6-7	20-21
Flush	No. 1	6-7	28
Garage	No. 1 and Mill Run	7	24-25
Interior	No. 1, No. 1F, No. 2, and No. 2F	6	8-9
Side Lights	No. 1	7	22
Storm	No. 1, No. 1F, No. 2, and No. 2F	7	22
Toilet	No. 1	7	25

¹ Ponderosa pine, one of the Western pines, has proved over the past 45 years to be highly adaptable for woodwork. This pine is light in color, ranging from creamy-white to straw color. The grain is close, uniform, and resists raising. The surface is even-textured. It takes nails and screws without splitting, is easy to mortise for locks and cut for hinges. It sands to a satin-smooth finish, takes paint, enamel, stain, and varnish, holding them well. The ends and edges do not splinter easily.

GENERAL REQUIREMENTS

PANEL AND SASH DOORS

5. All commercial standard ponderosa pine panel and sash doors shall meet the following requirements:

6. *Material*.—Doors shall be made of properly kiln-dried ponderosa pine.

7. *Workmanship*.—Doors shall be well manufactured and machined, with flat faces of stiles, rails, and panels smoothly machine-sanded.

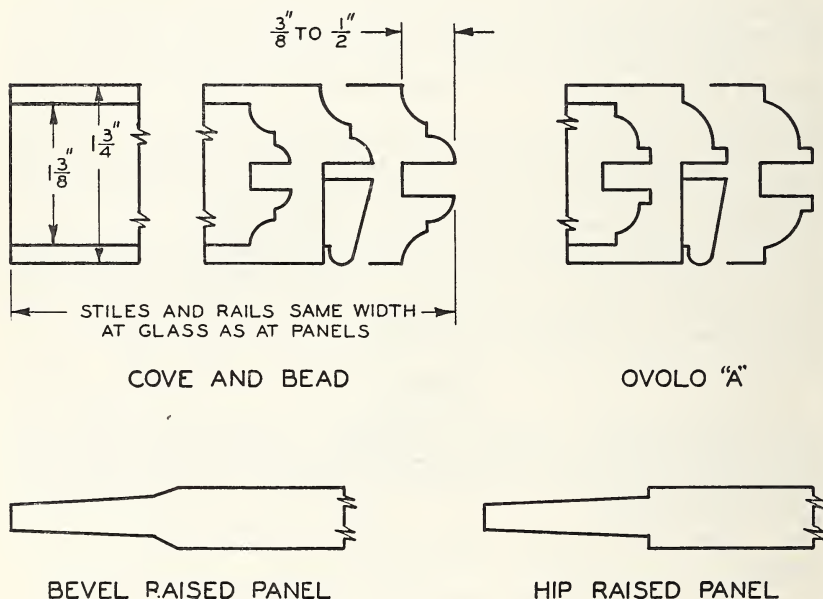


FIGURE 1. *Sticking and panel details.*

8. *Construction*.—Panel and sash doors shall be assembled by what is known as "dowelled construction," that is, stiles and rails to be bored to receive dowels not less than $\frac{3}{8}$ inch in diameter by approximately $4\frac{3}{4}$ inches long for doors $\frac{3}{4}$ inch thick, and not less than $\frac{1}{2}$ inch in diameter by approximately 5 inches long for doors $1\frac{1}{8}$, $1\frac{3}{8}$, and $1\frac{3}{4}$ inches thick (except that cupboard doors and narrow-stile doors may have shorter dowels). Dowels shall have glue grooves and be sized for a drive fit. Dowels shall be set in water-resistant glue and extend approximately one-half their

length into each stile and rail, and shall be assembled under pressure. Because of the fact that all present standard door-boring machines are built for $2\frac{1}{4}$ -inch dowel centers, the quantity of dowels used is limited according to the width of the rails and shall be based on the following minimum number of dowels at each end of rails:

Rails under $4\frac{1}{4}$ inches wide	1 dowel.
Rails $4\frac{1}{4}$ inches to 7 inches wide.....	2 dowels.
Rails over 7 inches wide	3 dowels, plus one additional dowel for each additional full 3 inches in width.

8a. At the option of the manufacturer, doors may be assembled by what is known as blind-mortised and tenoned construction instead of dowelled construction.

9. *Sticking*.—Stiles and rails shall have solid sticking. All intersections shall be coped with joints well fitted. "Cove and Bead," or "Ovolo A" sticking shall be standard on all standard ponderosa pine doors. See figure 1. Imperfect sticking which may develop in machining shall be carefully repaired or neatly replaced. Panels are also illustrated in figure 1.

10. *Thicknesses*.—Doors shall be of the following thicknesses; and a thickness tolerance of minus $\frac{1}{16}$ inch shall be allowed:

Cupboard doors	$\frac{3}{4}$ " and $1\frac{1}{8}$ ".
Side lights	$1\frac{3}{8}$ " and $1\frac{3}{4}$ ".
Interior doors	$1\frac{1}{8}$ ", $1\frac{3}{8}$ ", and $1\frac{3}{4}$ ".
Exterior doors	$1\frac{3}{8}$ " and $1\frac{3}{4}$ ".
Garage doors	$1\frac{3}{8}$ " and $1\frac{3}{4}$ ".
Toilet doors	$1\frac{1}{8}$ ".
Blind (summer) doors	$1\frac{1}{8}$ " and $1\frac{3}{8}$ ".
Combination doors and storm doors.....	$1\frac{1}{8}$ ".

11. *Size tolerance*.—Unless otherwise specified, a height and width tolerance of plus $\frac{1}{8}$ inch shall be allowed, except when doors are ordered "Prefit."

12. *Prefitting*.—When ordered "Prefit," doors shall be supplied as follows:

- (a) Interior and exterior doors, except combination screen and storm doors, shall be prefit to $\frac{3}{16}$ inch less in width and $\frac{1}{8}$ inch less in height than nominal door size, with a tolerance of $\frac{1}{32}$ inch, plus or minus, allowed.
- (b) All prefit doors shall have outside edges of stiles slightly eased.
- (c) All prefit doors shall have skid blocks, scuff strips, or other type of protection attached to the bottom of the door.

GRADING

13. All doors shall be graded according to both sides or faces. A shipment of any grade shall represent a fair average of that grade.

14. Interior, exterior, and storm doors ordinarily can be obtained in grades No. 1, No. 1F, No. 2, and No. 2F; cupboard

doors in No. 1 and No. 1F; side lights, casement doors, toilet doors, blind doors, combination doors, and flush doors in grade No. 1 only; and garage doors in grades No. 1 and "Mill Run."

**GRADE NO. 1.—SUITABLE FOR NATURAL, STAIN, PAINT,
OR ENAMEL FINISH**

15. *Stiles and rails.*—The stock shall be practically clear. Bright sap, light-brown stain, and light-red kiln burn shall be permitted. Each stile or bottom rail may contain one carefully repaired pitch seam on each side, provided it does not extend through the piece nor exceed $2\frac{1}{2}$ inches in length. Rails wider than $4\frac{3}{4}$ inches and up to $9\frac{3}{4}$ inches may be glued up with not over one joint, with two joints up to 12 inches, and with not more than the same proportion of joints being permitted in wider rails. A water-resistant glue shall be used. Stiles and rails may be solid or veneered, at the option of the manufacturer. If veneered, a water-resistant glue shall be used.

16. *Panels, solid.*—The standard thickness of solid ponderosa pine panels raised two sides shall be not less than $\frac{7}{16}$ inch after sanding, and shall conform to the grade of the stiles and rails. Panels wider than $9\frac{3}{4}$ inches may be glued up. A water-resistant glue shall be used.

17. *Panels, flat plywood.*—The standard thickness of 3-ply flat plywood panels shall be not less than $\frac{1}{4}$ inch after sanding except inner-frame and cupboard doors, which shall be not less than $\frac{3}{16}$ inch. If made of ponderosa pine, they shall be "sound and better two sides," according to standard commercial grading rules issued by pine plywood manufacturers; if made of hardwood, they shall be grade 1 plywood as specified in Commercial Standard CS35-47,² relating to hardwood plywood.

GRADE NO. 1F.—SUITABLE FOR PAINT OR ENAMEL FINISH

18. Same specifications as for grade No. 1, except that the panels shall be Douglas fir plywood in accordance with Commercial Standard CS45-48.²

**GRADE NO. 2.—SUITABLE FOR ORDINARY PAINT OR
ENAMEL FINISH**

19. *Stiles and rails.*—The stock may contain light-blue stain, medium-brown stain, or medium-red kiln burn, showing on not to exceed 50 percent of the area of any piece, as well as pitch streaks, checks, pitch pockets if carefully slivered, tight sound knots not to exceed $\frac{5}{8}$ inch in diameter, and other imperfections, not one of which shall be more serious in nature than those enumerated above. Each stile shall contain one such imperfection, and may have two, but no piece shall contain more than two, and no door shall contain more than eight on each side. Plugs shall be admitted but regarded as imperfections. Rails wider than $4\frac{3}{4}$ inches may be glued up. A water-resistant glue shall be used.

² Commercial Standards CS35, Hardwood Plywood, and CS45, Douglas Fir Plywood, may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., for 10 cents each.

Stiles and rails may be solid or veneered, at the option of the manufacturer. If veneered, a water-resistant glue shall be used.

20. *Panels, solid.*—The standard thickness of solid ponderosa pine panels raised two sides shall be not less than $\frac{7}{16}$ inch after sanding and shall conform to the grade of the stiles and rails. Panels wider than $9\frac{3}{4}$ inches may be glued up. A water-resistant glue shall be used.

21. *Panels, flat plywood.*—The standard thickness of 3-ply flat plywood panels shall be not less than $\frac{1}{4}$ inch after sanding, except inner-frame and cupboard doors, which shall be not less than $\frac{3}{16}$ inch. If made of ponderosa pine, they shall be "sound and better two sides," according to standard commercial grading rules issued by pine plywood manufacturers; if made of hardwood, they shall be grade 2 plywood as specified in Commercial Standard CS35-47, relating to hardwood plywood.

GRADE NO. 2F.—SUITABLE FOR ORDINARY PAINT OR ENAMEL FINISH

22. Same specifications as for grade No. 2, except that panels shall be Douglas fir plywood in accordance with Commercial Standard CS45-48.

GRADE "MILL RUN."—GARAGE DOORS ONLY—FOR PAINT FINISH ONLY

23. "Mill Run" grade may contain blue stain, brown stain, or red kiln burn, worm holes, checks, pitch streaks, pitch pockets, fine shake, tight sound knots not to exceed 2 inches in diameter, and other imperfections, none of which shall be more serious in nature than those already enumerated.

24. *Panels, solid.*—The standard thickness of solid ponderosa pine panels raised two sides shall be not less than $\frac{7}{16}$ inch after sanding and shall conform to the grade of the stiles and rails. Panels wider than $9\frac{3}{4}$ inches may be glued up. A water-resistant glue shall be used.

25. *Panels, flat plywood.*—The standard thickness of 3-ply flat plywood panels shall be not less than $\frac{1}{4}$ inch after sanding. If made of ponderosa pine, they shall be "sound and better two sides," according to standard commercial grading rules issued by pine plywood manufacturers; if made of Douglas fir, they shall be in accordance with Commercial Standard CS45-48.

DESIGNS AND LAY-OUTS

26. Measurements for stiles, rails, mullions, and muntins shown in the lay-outs herein are over-all (face measurement plus the sticking). A tolerance of $\frac{1}{8}$ inch in width shall be permitted. Unless otherwise specified, glass measurements may vary not more than $\frac{1}{4}$ inch from those shown in the lay-outs. (These tolerances allow for variations in different manufacturers' practices.)

27. Interior doors of any design narrower than 1 foot 6 inches in width will be furnished with stiles $3\frac{3}{4}$ inches over-all width, unless otherwise specified.

TABLE 1. Standard sizes

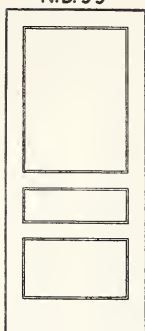
INTERIOR PANEL DOORS		EXTERIOR DOORS	
<i>N.D. 99-100-101-102-106-107-108-111</i>		<i>N.D. 600-605-606-607-608-609-612-613</i>	
1' 6" x 6' 6"	1 3/8"	1 3/4"	
6' 8"	1 3/8"	2' 8" x 6' 8"	
2' 0" x 6' 0"*	1 3/8"	7' 0"	
6' 6"*	1 3/8"	3' 0" x 6' 8"	
6' 8"*	1 3/8"	7' 0"	
7' 0"	1 3/8"	3' 4" x 6' 8"	
2' 4" x 6' 0"	1 3/8"	7' 0"	
6' 6"	1 3/8"		
6' 8"	1 3/8"		
7' 0"	1 3/8"		
2' 6" x 6' 0"	1 3/8" and 1 3/4"		
6' 6"*	1 3/8" and 1 3/4"		
6' 8"	1 3/8" and 1 3/4"		
7' 0"	1 3/8" and 1 3/4"		
2' 8" x 6' 0"	1 3/8" and 1 3/4"		
6' 6"	1 3/8" and 1 3/4"		
6' 8"	1 3/8" and 1 3/4"		
7' 0"	1 3/8" and 1 3/4"		
3' 0" x 6' 8"	1 3/8" and 1 3/4"		
7' 0"	1 3/8" and 1 3/4"		
*Also furnished in 1 1/8" thickness in design N.D. 107 only.			
EXTERIOR DOORS		EXTERIOR DOOR	
<i>N.D. 110-112-500-501-502-505-506-507-508-509-510-511-512-596-597-598-636-644</i>		<i>N.D. 635</i>	
2' 8" x 6' 8"	1 3/8" and 1 3/4"	2' 8" x 6' 8"	1 3/8" and 1 3/4"
7' 0"	1 3/8" and 1 3/4"	7' 0"	1 3/8" and 1 3/4"
3' 0" x 6' 8"	1 3/8" and 1 3/4"	3' 0" x 6' 8"	1 3/8" and 1 3/4"
7' 0"	1 3/8" and 1 3/4"	7' 0"	1 3/8" and 1 3/4"
3' 4" x 6' 8"	1 3/4" only	7' 6"	1 3/4" only
7' 0"	1 3/4" only	8' 0"	1 3/4" only
		3' 4" x 6' 8"	1 3/4" only
		7' 0"	1 3/4" only
		7' 6"	1 3/4" only
		8' 0"	1 3/4" only
		3' 6" x 7' 0"	1 3/4" only
		7' 6"	1 3/4" only
		8' 0"	1 3/4" only
EXTERIOR DOORS		RIM AND HORIZONTAL-LIGHT DOORS	
<i>N.D. 637-638-640-641-642</i>		<i>N.D. 620-630</i>	
2' 8" x 6' 8"	1 3/8" and 1 3/4"	1 3/8" and 1 3/4"	
7' 0"	1 3/8" and 1 3/4"	2' 0" x 6' 6"	2' 6" x 6' 6"
3' 0" x 6' 8"	1 3/8" and 1 3/4"	6' 8"	6' 8"
7' 0"	1 3/8" and 1 3/4"	7' 0"	7' 0"
3' 4" x 6' 8"	1 3/4" only	2' 4" x 6' 6"	2' 8" x 6' 8"
7' 0"	1 3/4" only	6' 8"	7' 0"
		7' 0"	3' 0" x 6' 8"
			7' 0"
EXTERIOR FRENCH OR CASEMENT DOORS		INTERIOR FLUSH DOORS	
<i>N.D. 637-638-640-641-642</i>		<i>Plain—solid core</i>	
2' 8" x 6' 8"	1 3/8" and 1 3/4"	1 3/4"	
7' 0"	1 3/8" and 1 3/4"	1' 6" x 6' 6"	2' 4" x 6' 0"
3' 0" x 6' 8"	1 3/8" and 1 3/4"	6' 8"	6' 6"
7' 0"	1 3/8" and 1 3/4"	6' 6"	6' 8"
3' 4" x 6' 8"	1 3/4" only	6' 8"	7' 0"
7' 0"	1 3/4" only	7' 0"	2' 6" x 6' 0"
		6' 6"	3' 0" x 6' 8"
		6' 8"	7' 0"
		7' 0"	3' 4" x 6' 8"
			7' 0"

TABLE 1. *Standard sizes—Continued*

EXTERIOR FLUSH DOORS	INTERIOR FRENCH OR CASEMENT DOORS
<i>V-grooved—solid core</i> $1\frac{3}{4}''$ $3' 0'' \times 6' 8''$ $7' 0''$	<i>N.D. 622-623-625</i> $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $2' 0'' \times 6' 6''^*$ $6' 8''^*$ $7' 0''^*$ $2' 4'' \times 6' 6''$ $6' 8''$ $7' 0''$
$3' 4'' \times 6' 8''$ $7' 0''$	$2' 6'' \times 6' 6''$ $6' 8''$ $7' 0''$ $2' 8'' \times 6' 8''$ $7' 0''$ $3' 0'' \times 6' 8''$ $7' 0''$
CUPBOARD DOORS	*Not furnished in design N.D. 623.
<i>N.D. 710-711-712</i> $\frac{3}{4}''$ and $1\frac{1}{8}''$ $1' 0'' \times 1' 6''$ $2' 0''$ $2' 6''$ $3' 0''$ $3' 6''$ $4' 0''$ $4' 6''$ $5' 0''$	<i>N.D. 626-627</i> $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $2' 4'' \times 6' 6''$ $6' 8''$ $7' 0''$ $2' 6'' \times 6' 6''$ $6' 8''$ $7' 0''$
$1' 4'' \times 1' 6''$ $2' 0''$ $2' 6''$ $3' 0''$ $3' 6''$ $4' 0''$ $4' 6''$ $5' 0''$	$2' 8'' \times 6' 8''$ $6' 8''$ $7' 0''$ $3' 0'' \times 6' 8''$ $7' 0''$
$1' 8'' \times 2' 0''$ $2' 6''$ $3' 0''$ $3' 6''$ $4' 0''$ $4' 6''$ $5' 0''$	
	GARAGE DOORS
$1' 2'' \times 1' 6''$ $2' 0''$ $2' 6''$ $3' 0''$ $3' 6''$ $4' 0''$ $4' 6''$ $5' 0''$	<i>N.D. 721-723-725</i> <i>N.D. 720-722-724</i> $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $2' 8'' \times 7' 0''$ $7' 6''$
$1' 6'' \times 1' 6''$ $2' 0''$ $2' 6''$ $3' 0''$ $3' 6''$ $4' 0''$ $4' 6''$ $5' 0''$	$4' 0'' \times 7' 0''$ $7' 6''$
$2' 0'' \times 2' 0''$ $2' 6''$ $3' 0''$ $3' 6''$ $4' 0''$ $4' 6''$ $5' 0''$	TOILET DOORS
	<i>N.D. 726-727-728</i> $1\frac{1}{8}''$ $2' 0'' \times 4' 0''$ $4' 6''$ $5' 0''$ $5' 6''$
EXTERIOR DOORS	$2' 4'' \times 4' 0''$ $4' 6''$ $5' 0''$ $5' 6''$
<i>N.D. 575-576-578-580-582-591-592-593-594</i> $2' 8'' \times 6' 8''$ $7' 0''$ $3' 0'' \times 6' 8''$ $7' 0''$	$2' 6'' \times 4' 0''$ $4' 6''$ $5' 0''$ $5' 6''$
	BLIND OR SUMMER DOORS
$1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$	<i>N.D. 730-731</i> $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $2' 0'' \times 6' 0''$ $2' 4'' \times 6' 0''$ $2' 6'' \times 6' 0''$ $6' 6''$ $6' 8''$
EXTERIOR DOORS	$2' 8'' \times 6' 8''$ $7' 0''$ $3' 0'' \times 6' 8''$ $7' 0''$
<i>N.D. 513-514-515-516-517-519-536-537-538-539-542-549-559-560-561-562-563-567-569-570-571</i> $2' 6'' \times 6' 6''$ $6' 8''$ $2' 8'' \times 6' 8''$ $7' 0''$ $3' 0'' \times 6' 8''$ $7' 0''$	$3' 0'' \times 6' 8''$ $7' 0''$
	COMBINATION DOORS
$1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$	<i>N.D. 736-737-739-742-749-756</i> $1\frac{1}{8}''$ $2' 6'' \times 6' 7''$ $6' 9''$ $2' 8'' \times 6' 9''$ $7' 1''$
$1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$	$2' 10'' \times 6' 9''$ $6' 11''$ $7' 1''$ $3' 0'' \times 6' 9''$ $7' 1''$
	STORM DOORS
<i>S.L. 675-676</i> $1' 0'' \times 6' 8''$ $7' 0''$ $1' 2'' \times 6' 8''$ $7' 0''$	<i>N.D. 702-703</i> $1\frac{1}{8}''$ $2' 6'' \times 6' 7''$ $6' 9''$ $7' 1''$ $2' 8'' \times 6' 9''$ $7' 1''$
$1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$ $1\frac{3}{8}''$ and $1\frac{3}{4}''$	$2' 10'' \times 6' 9''$ $6' 11''$ $7' 1''$ $3' 0'' \times 6' 9''$ $7' 1''$

INTERIOR DOORS

N.D. 99



THREE PANEL

Stiles and top rail	4 3/4"
Cross rails	4 5/8"
Bottom rail	9 5/8"
Height of center panel including sticking	8 13/16"
Height from bottom of door to top of upper cross rail, sticking not included.	41 11/16"

3-ply plywood flat panels. Sticking: Standard.

N.D. 100

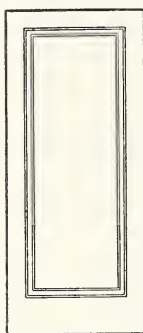


ONE PANEL

Stiles and top rail	4 3/4"
Bottom rail	9 5/8"

3-ply plywood flat panel. Sticking: Standard.

N.D. 101

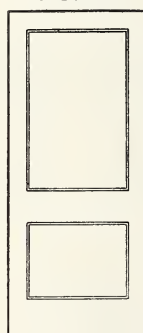


INNER FRAME

Stiles and top rail	4 3/4" face
Bottom rail	9 3/4" or 9 1/2" face

3-ply plywood flat panel. Sticking: P&G or Standard.

N.D. 102



TWO PANEL

Stiles and top rail	4 3/4"
Lock rail	8"
Bottom rail	9 5/8"

3-ply plywood flat panels. Sticking: Standard.

See table 1, page 6, for sizes available.

INTERIOR DOORS—Continued

N.D. 106

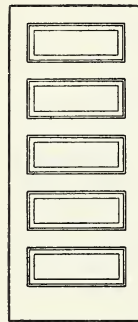


FOUR PANEL

Stiles and top rail	4¾"
Lock rail	8"
Muntins	4⅝"
Bottom rail	9⅝"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

N.D. 107

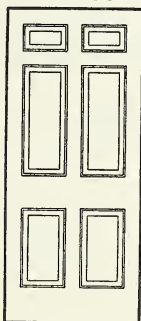


FIVE CROSS PANEL

Stiles and top rail	4¾"
Intermediate rails	4⅝"
Bottom rail	9⅝"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

N.D. 108



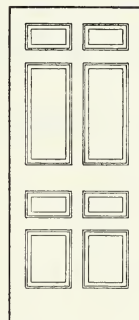
SIX PANEL COLONIAL

Stiles and top rail	4¾"
Lock rail	8"
Intermediate rails and mullions	3⅝"
Bottom rail	9⅝"
Height of top panels over-all	7⅞"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels. Sticking: Standard.

Doors 1' 6" and narrower are made 1 panel wide.

N.D. 111



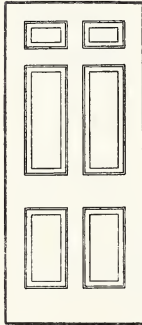
EIGHT PANEL COLONIAL

4⅝" intermediate rails and mullions are optional with some manufacturers.
Bottom and lock rails for N. D. 108 and N. D. 111 can be reversed when so specified.

See table 1, page 6, for sizes available.

EXTERIOR DOORS

N.D. 110

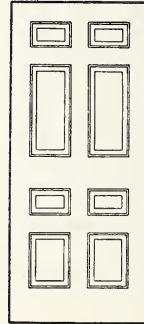


SIX PANEL COLONIAL

Stiles and top rail	5½"
Lock rail	8"
Intermediate rail and mullions	5⅜"
Bottom rail	9⅝"
Panel thickness	¾"
Height of top panels over-all	7⅞"

Raised panels 2 sides. Sticking: Standard.

N.D. 112



EIGHT PANEL COLONIAL

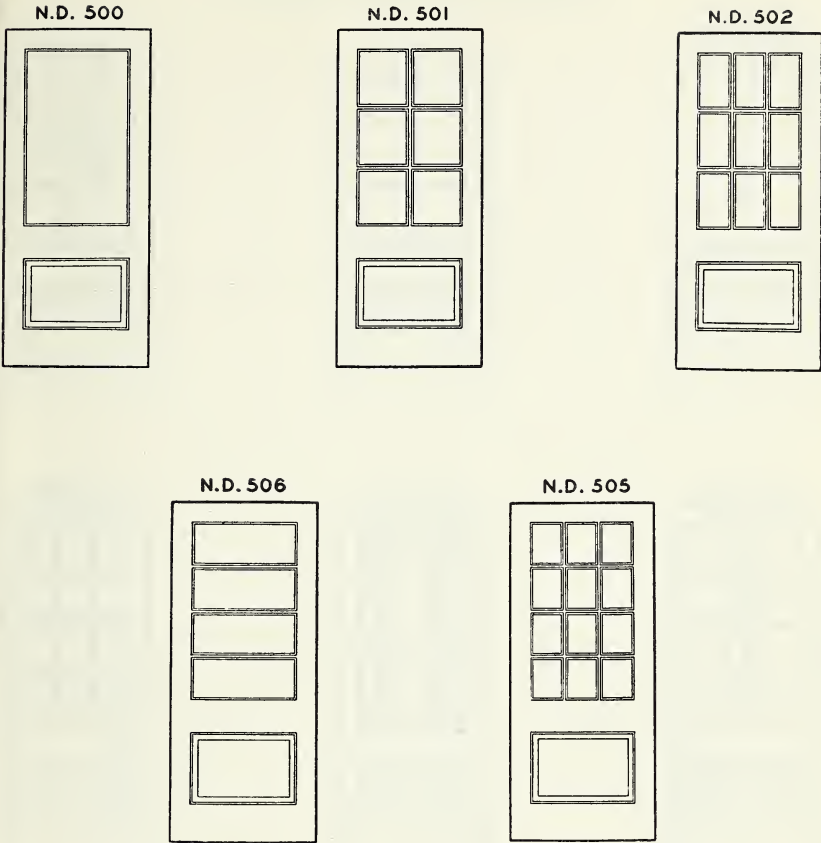
Stiles and top rail	5½"
Lock rail	8"
Intermediate rails and mullions	5⅜"
Bottom rail	9⅝"
Panel thickness	¾"
Height of small panels over-all	7⅞"

Raised panels 2 sides. Sticking: Standard.

N. D. 110 and N. D. 112 colonial designs may be obtained, when so specified, with 9⅝" lock rail, 4⅝" intermediate rail and mullions, and 8" bottom rail. They may also be obtained with ⅞" raised panels.

See table 1, page 6, for sizes available.

EXTERIOR DOORS—Continued



Stiles and top rail.....	5½"
Lock rail	9⅝"
Bottom rail.....	9⅝"

Raised panel 2 sides. Can also be furnished with 3-ply plywood flat panel, if desired.
Sticking: Standard.

Approximate glass size

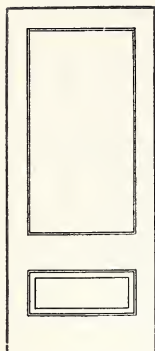
Door No.	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 500	22" x 40"	26" x 40"	26" x 44"
N. D. 501.....	10¾" x 13"	12¾" x 13"	12¾" x 14⅝"
N. D. 502.....	7" x 13"	8⅝" x 13"	8⅝" x 14⅝"
N. D. 505.....	7" x 9⅝"	8⅝" x 9⅝"	8⅝" x 10⅝"
N. D. 506	22" x 9⅝"	26" x 9⅝"	26" x 10⅝"

Beads for glass included.
8" lock rail can be furnished when so specified.

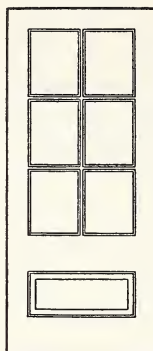
See table 1, page 6, for sizes available.

EXTERIOR DOORS—Continued

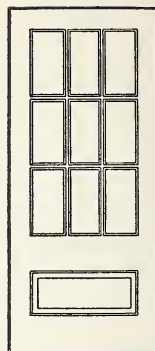
N.D. 507



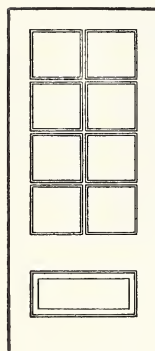
N.D. 508



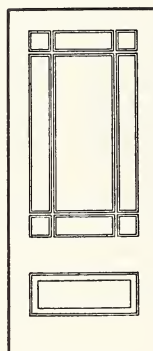
N.D. 509



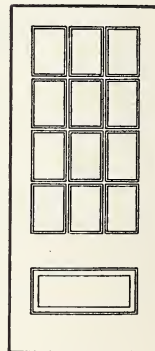
N.D. 510



N.D. 511



N.D. 512



Stiles and top rail..... $5\frac{1}{2}''$
 Lock rail..... $9\frac{5}{8}''$
 Bottom rail..... $9\frac{5}{8}''$

Raised panel 2 sides. Can also be furnished with 3-ply plywood flat panel, if desired. Sticking: Standard.

Approximate glass size

Door No.	Size of door		
	2' 8'' x 6' 8''	3' 0'' x 6' 8''	3' 0'' x 7' 0''
N. D. 507.....	22'' x 46''	26'' x 46''	26'' x 50''
N. D. 508.....	$10\frac{3}{4}''$ x 15''	$12\frac{3}{4}''$ x 15''	$12\frac{3}{4}''$ x $16\frac{3}{16}''$
N. D. 509.....	7'' x 15''	$8\frac{5}{16}''$ x 15''	$8\frac{5}{16}''$ x $16\frac{3}{16}''$
N. D. 510.....	$10\frac{3}{4}''$ x $11\frac{1}{8}''$	$12\frac{3}{4}''$ x $11\frac{1}{8}''$	$12\frac{3}{4}''$ x $12\frac{1}{8}''$
N. D. 511.....	5'' x 5''*	5'' x 5''*	5'' x 5''*
N. D. 512.....	7'' x $11\frac{1}{8}''$	$8\frac{5}{16}''$ x $11\frac{1}{8}''$	$8\frac{5}{16}''$ x $12\frac{1}{8}''$

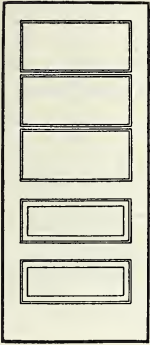
*Corner lights.
 Beads for glass included.

8'' lock rail can be furnished when so specified.

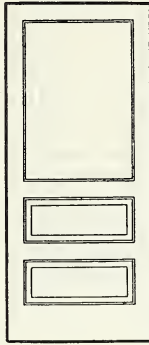
See table 1, page 6, for sizes available.

EXTERIOR DOORS—Continued

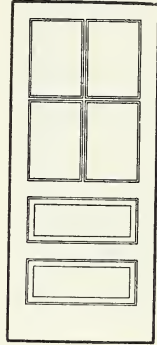
N.D. 513



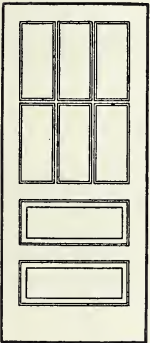
N.D. 514



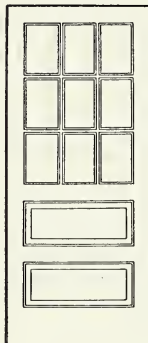
N.D. 515



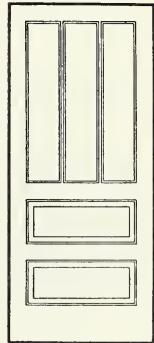
N.D. 516



N.D. 517



N.D. 519



Stiles and top rail.....	4¾"
Lock rail.....	4½"
Intermediate rail.....	4½"
Bottom rail.....	9½"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Approximate glass size

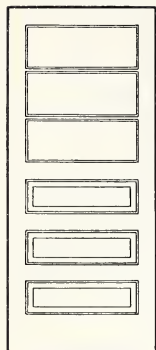
Door No.	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 513.....	23½" x 11⅝"	27½" x 11⅝"	27½" x 13"
N. D. 514.....	23½" x 36"	27½" x 36"	27½" x 40"
N. D. 515.....	11½" x 17¾"	13½" x 17¾"	13½" x 19¾"
N. D. 516.....	7½" x 17¾"	8⅜" x 17¾"	8⅜" x 19¾"
N. D. 517.....	7½" x 11⅝"	8⅜" x 11⅝"	8⅜" x 13"
N. D. 519.....	7½" x 36"	8⅜" x 36"	8⅜" x 40"

Beads for glass included.

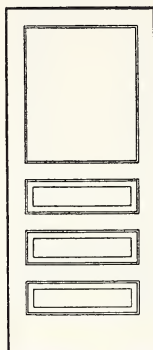
See table 1, page 7, for sizes available.

EXTERIOR DOORS—Continued

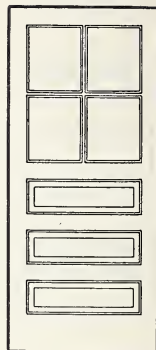
N.D. 536



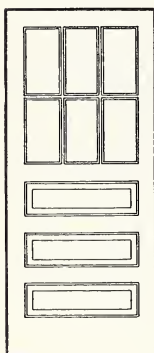
N.D. 537



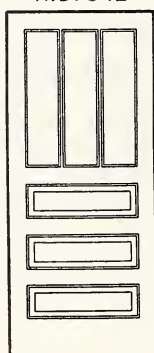
N.D. 538



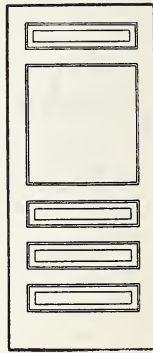
N.D. 539



N.D. 542



N.D. 549



Stiles and top rail..... 4¾"
 Cross rails..... 4½"
 Bottom rail..... 9½"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Approximate glass size

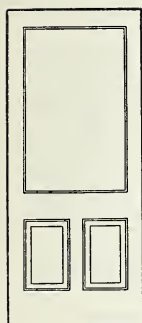
Door No.	Size of door 2' 6" x 6' 6"	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 536.....	21½" x 9"	23½" x 9¾"	27½" x 9¾"	27½" x 11"
N. D. 537.....	21½" x 28"	23½" x 30"	27½" x 30"	27½" x 34"
N. D. 538.....	10½" x 13¾"	11½" x 14¾"	13½" x 14¾"	13½" x 16¾"
N. D. 539.....	6¼" x 13¾"	7½" x 14¾"	8¼" x 14¾"	8¼" x 16¾"
N. D. 542.....	6¼" x 28"	7½" x 30"	8¼" x 30"	8¼" x 34"
N. D. 549.....	21½" x 24"	23½" x 26"	27½" x 26"	27½" x 30"

Beads for glass included.

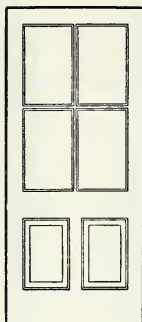
See table 1, page 7, for sizes available.

EXTERIOR DOORS—Continued

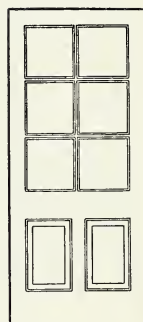
N. D. 559



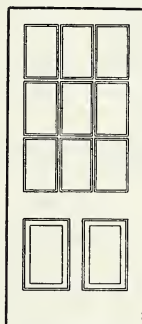
N. D. 560



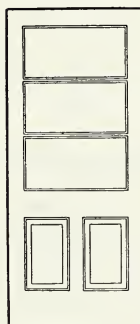
N. D. 561



N. D. 562



N. D. 563



Stiles and top rail.....	4 $\frac{3}{4}$ "
Lock rail.....	8"
Muntins.....	4 $\frac{5}{8}$ "
Bottom rail.....	9 $\frac{5}{8}$ "

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Approximate glass size

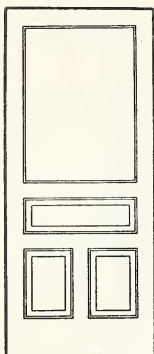
Door No.	Size of door 2' 6" x 6' 6"	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 559.....	21 $\frac{1}{2}$ " x 38"	23 $\frac{1}{2}$ " x 40"	27 $\frac{1}{2}$ " x 40"	27 $\frac{1}{2}$ " x 44"
N. D. 560.....	10 $\frac{1}{2}$ " x 18 $\frac{3}{4}$ "	11 $\frac{1}{2}$ " x 19 $\frac{3}{4}$ "	13 $\frac{1}{2}$ " x 19 $\frac{3}{4}$ "	13 $\frac{1}{2}$ " x 21 $\frac{3}{4}$ "
N. D. 561.....	10 $\frac{1}{2}$ " x 12 $\frac{5}{16}$ "	11 $\frac{1}{2}$ " x 13"	13 $\frac{1}{2}$ " x 13"	13 $\frac{1}{2}$ " x 14 $\frac{5}{16}$ "
N. D. 562.....	61 $\frac{3}{16}$ " x 12 $\frac{5}{16}$ "	7 $\frac{1}{2}$ " x 13"	81 $\frac{3}{16}$ " x 13"	81 $\frac{3}{16}$ " x 14 $\frac{5}{16}$ "
N. D. 563.....	21 $\frac{1}{2}$ " x 12 $\frac{5}{16}$ "	23 $\frac{1}{2}$ " x 13"	27 $\frac{1}{2}$ " x 13"	27 $\frac{1}{2}$ " x 14 $\frac{5}{16}$ "

Beads for glass included.

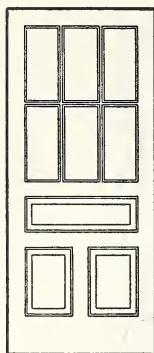
See table 1, page 7, for sizes available.

EXTERIOR DOORS—Continued

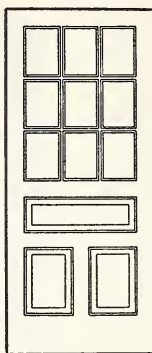
N.D. 567



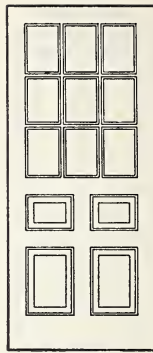
N.D. 569



N.D. 570



N.D. 571



Stiles and top rail $4\frac{3}{4}''$
 Cross rails $4\frac{5}{8}''$

Muntins $4\frac{5}{8}''$
 Bottom rail $9\frac{5}{8}''$

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

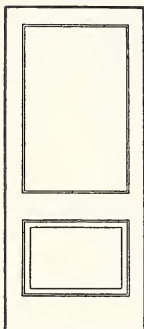
Approximate glass size (for doors with above layout)

Door No.	Size of door 2' 6" x 6' 6"	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 567	$21\frac{1}{2}'' \times 32''$	$23\frac{1}{2}'' \times 34''$	$27\frac{1}{2}'' \times 34''$	$27\frac{1}{2}'' \times 38''$
N. D. 569	$61\frac{1}{16}'' \times 15\frac{3}{4}''$	$7\frac{1}{2}'' \times 16\frac{3}{4}''$	$81\frac{1}{16}'' \times 16\frac{3}{4}''$	$81\frac{1}{16}'' \times 18\frac{3}{4}''$
N. D. 570	$61\frac{1}{16}'' \times 10\frac{5}{16}''$	$7\frac{1}{2}'' \times 11''$	$81\frac{1}{16}'' \times 11''$	$81\frac{1}{16}'' \times 12\frac{5}{16}''$
N. D. 571	$61\frac{1}{16}'' \times 10\frac{5}{16}''$	$7\frac{1}{2}'' \times 11''$	$81\frac{1}{16}'' \times 11''$	$81\frac{1}{16}'' \times 12\frac{5}{16}''$

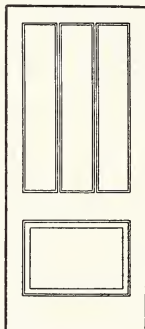
Beads for glass included.

Above also supplied with $5\frac{1}{2}''$ stiles and top rail, $5\frac{3}{8}''$ cross rails and muntins, when so specified.
 N. D. 567 and N. D. 569 top panel made 2 panels wide, when so specified.

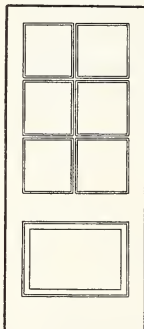
N.D. 575



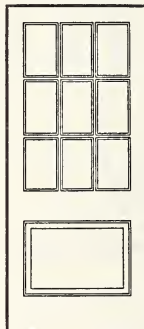
N.D. 576



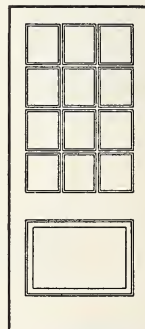
N.D. 578



N.D. 580



N.D. 582



Stiles and top rail $4\frac{3}{4}''$
 Lock rail $8''$
 Bottom rail $9\frac{5}{8}''$

Raised panel 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Approximate glass size

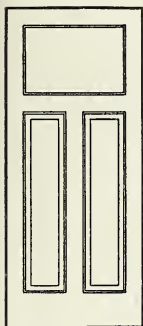
Door No.	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 575	$23\frac{1}{2}'' \times 40''$	$27\frac{1}{2}'' \times 40''$	$27\frac{1}{2}'' \times 44''$
N. D. 576	$7\frac{1}{2}'' \times 40''$	$81\frac{1}{16}'' \times 40''$	$81\frac{1}{16}'' \times 44''$
N. D. 578	$11\frac{1}{2}'' \times 13''$	$13\frac{1}{2}'' \times 13''$	$13\frac{1}{2}'' \times 14\frac{5}{16}''$
N. D. 580	$7\frac{1}{2}'' \times 13''$	$81\frac{1}{16}'' \times 13''$	$81\frac{1}{16}'' \times 14\frac{5}{16}''$
N. D. 582	$7\frac{1}{2}'' \times 9\frac{5}{8}''$	$81\frac{1}{16}'' \times 9\frac{5}{8}''$	$81\frac{1}{16}'' \times 10\frac{5}{8}''$

Beads for glass included.

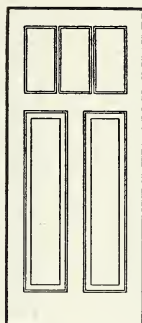
See table 1, page 7, for sizes available.

EXTERIOR DOORS—Continued

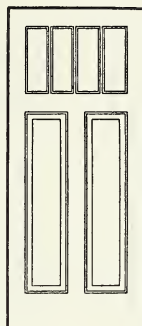
N.D. 591



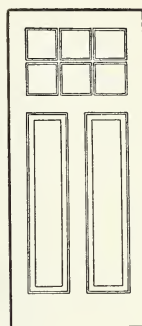
N.D. 592



N.D. 593



N.D. 594



Stiles and top rail..... $5\frac{1}{2}''$
 Mullion and cross rail..... $5\frac{3}{8}''$
 Bottom rail..... $9\frac{5}{8}''$

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

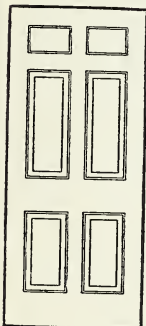
Approximate glass size (for doors with $5\frac{1}{2}''$ stiles)

Door No.	Size of door 2' 8'' x 6' 8''	Size of door 3' 0'' x 6' 8''	Size of door 3' 0'' x 7' 0''
N. D. 591.....	22'' x 18''	26'' x 18''	26'' x 18''
N. D. 592.....	7'' x 18''	$8\frac{5}{16}''$ x 18''	$8\frac{5}{16}''$ x 18''
N. D. 593.....	$5\frac{1}{8}''$ x 18''	$6\frac{1}{8}''$ x 18''	$6\frac{1}{8}''$ x 18''
N. D. 594.....	7'' x $8\frac{3}{4}''$	$8\frac{5}{16}''$ x $8\frac{3}{4}''$	$8\frac{5}{16}''$ x $8\frac{3}{4}''$

Beads for glass included.

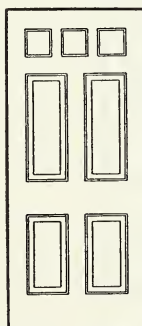
Above also supplied with $4\frac{3}{4}''$ stiles and top rail, $4\frac{5}{8}''$ mullion and cross rail, when so specified.

N.D. 596



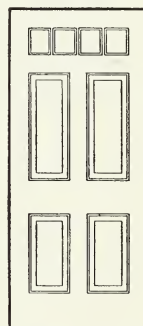
BAR.....5-3/8"

N.D. 597



BARS.....3-1/2"

N.D. 598



BARS.....1-1/2"

Stiles and top rail..... $5\frac{1}{2}''$
 Lock rail..... 8''
 Top cross rail and mullions..... $5\frac{3}{8}''$
 Bottom rail..... $9\frac{5}{8}''$

$\frac{3}{4}''$ raised panels 2 sides. Sticking: Standard.

Approximate glass size

Door No.	Size of door 2' 8'' x 6' 8''	Size of door 3' 0'' x 6' 8''	Size of door 3' 0'' x 7' 0''
N. D. 596.....	$8\frac{3}{4}''$ x $7\frac{1}{8}''$	$10\frac{3}{4}''$ x $7\frac{1}{8}''$	$10\frac{3}{4}''$ x $7\frac{1}{8}''$
N. D. 597.....	$5\frac{3}{4}''$ x $7\frac{1}{8}''$	7'' x $7\frac{1}{8}''$	7'' x $7\frac{1}{8}''$
N. D. 598.....	$5\frac{1}{8}''$ x $7\frac{1}{8}''$	$6\frac{1}{8}''$ x $7\frac{1}{8}''$	$6\frac{1}{8}''$ x $7\frac{1}{8}''$

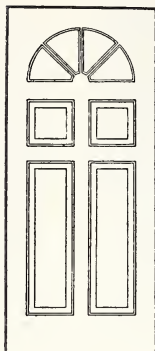
Beads for glass included.

Bottom and lock rails can be reversed when so specified.

See table 1, pages 6 and 7, for sizes available.

EXTERIOR DOORS—Continued

N.D. 600



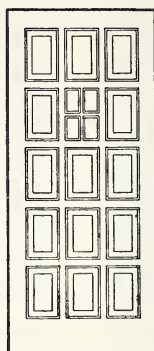
Stiles and top rail	5½"
Top cross rail	5¾"
Intermediate rail and mullion	4¾"
Bottom rail	9¾"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Size of door	Approx. glass opg.
2' 8" x 6' 8"	22" x 11"
3' 0" x 6' 8"	26" x 13"
3' 0" x 7' 0"	26" x 13"

Beads for glass included.

N.D. 605



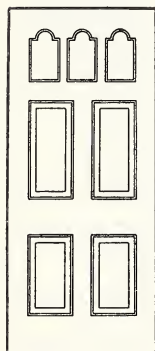
Stiles and top rail	4¾"
Cross rails and muntins	2¾"
Bottom rail	9¾"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

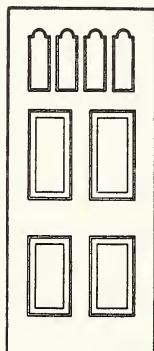
Size of door	Approx. glass opg.
2' 8" x 6' 8"	6¾" x 11¾"
3' 0" x 6' 8"	8" x 11¾"
3' 0" x 7' 0"	8" x 12¼"

Beads for glass included.

N.D. 606



N.D. 607



Stiles and top rail	5½"
Lock rail	8"
Top cross rail and mullions	5¾"
Bottom rail	9¾"
Bars	1½" to 3½"

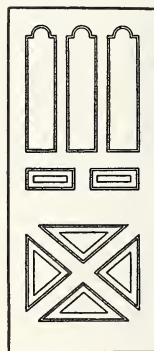
¾" raised panels 2 sides. Sticking: Standard.

Size of door	N. D. 606	N. D. 607
2' 8" x 6' 8"	6¾" x 9"	4¾" x 11"
3' 0" x 6' 8"	7½" x 9"	5¾" x 11"
3' 0" x 7' 0"	7½" x 13"	5¾" x 15"

Beads for glass included.

Bottom and lock rails can be reversed when so specified.

N.D. 608



Stiles and top rail	4¾"
Lock rail	9¾"
Cross rail and mullions	4¾"
Bottom rail	8"
Bars	3½"

1½" heavy raised panels 2 sides. Sticking: Standard.

Size of door	Approx. glass size
2' 8" x 6' 8"	6¾" x 26¾"
3' 0" x 6' 8"	7¾" x 26¾"
3' 0" x 7' 0"	7¾" x 30¾"

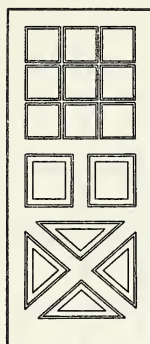
Beads for glass included.

Also supplied with ¾" raised panels when so specified. Also supplied with 5½" stiles and top rail when so specified.

See table 1, page 6, for sizes available.

EXTERIOR DOORS—Continued

N. D. 609



Stiles and top rail	4 3/4"
Lock rail	4 5/8"
Cross rail and mullions	4 5/8"
Bottom rail	8"

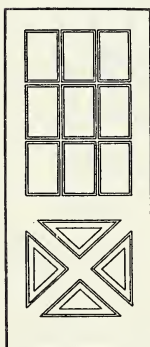
1 1/8" heavy raised panels 2 sides. Sticking: Standard.

Size of door	Approx. glass size
2' 8" x 6' 8"	7 1/2" x 7 5/8"
3' 0" x 6' 8"	8 13/16" x 7 5/8"
3' 0" x 7' 0"	8 13/16" x 9"

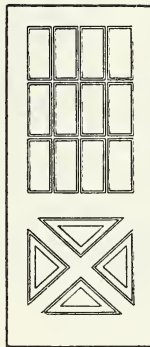
Beads for glass included.

Also supplied with 1 3/8" and 1 3/4" raised panels, when so specified.

N. D. 612



N. D. 613



Stiles and top rail	5 1/2"
Lock rail	7"
Mullions	5 3/8"
Bottom rail	8"

1 1/8" heavy raised panels 2 sides. Sticking: Standard.

Size of door	N. D. 612	N. D. 613
2' 8" x 6' 8"	7" x 12"	5 1/2" x 12"
3' 0" x 6' 8"	8 5/16" x 12"	6 1/8" x 12"
3' 0" x 7' 0"	8 5/16" x 13 5/16"	6 1/8" x 13 5/16"

Beads for glass included.

Also supplied with 3/4" and 1 3/4" raised panels, when so specified.

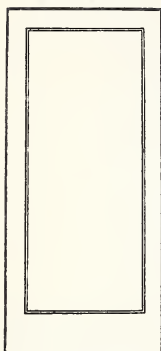
See table 1, page 6, for sizes available.

EXTERIOR DOORS—Continued

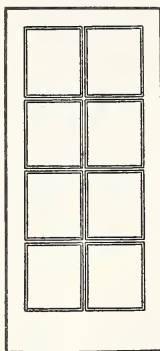
(Also for Interior)

Rim, horizontal light, French, or casement

N.D. 620



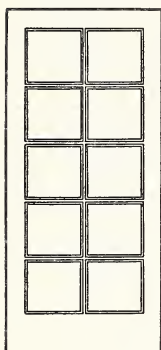
N.D. 622



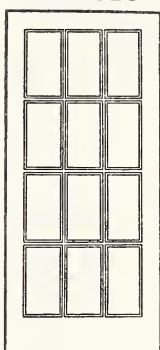
N.D. 623



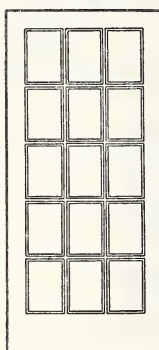
N.D. 625



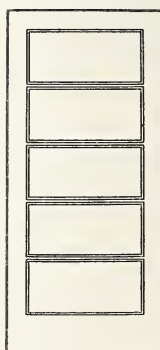
N.D. 626



N.D. 627



N.D. 630



Stiles and top rail..... 4¾"
 Bottom rail..... 95⁄8"

Sticking: Standard.

Approximate glass size for above layout

Door No.	Size of door 2' 0" x 6' 8"	Size of door 2' 6" x 6' 8"	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"
N. D. 620.....	15½" x 66½"	21½" x 66½"	23½" x 66½"	27½" x 66½"
N. D. 622.....	7½" x 16¼"	10½" x 16¼"	11½" x 16¼"	13½" x 16¼"
N. D. 623.....		5" x 5"*	5" x 5"*	5" x 5"*
N. D. 625.....	7½" x 12¾"	10½" x 12¾"	11½" x 12¾"	13½" x 12¾"
N. D. 626.....		6¼" x 16¼"	7½" x 16¼"	8¼" x 16¼"
N. D. 627.....		6¼" x 12¾"	7½" x 12¾"	8¼" x 12¾"
N. D. 630.....	15½" x 12¾"	21½" x 12¾"	23½" x 12¾"	27½" x 12¾"

*Corner lights.

Beads for glass included.

Above doors also supplied with 3½" stiles and top rail when so specified,
 and with 11½" bottom rail, when so specified.

See table 1, pages 6 and 7, for sizes available.

EXTERIOR DOORS—Continued

(Also for Interior)

Rim, horizontal light, French, or casement

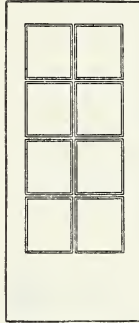
N.D. 635



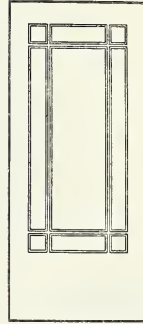
N.D. 636



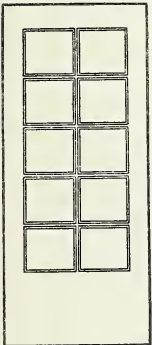
N.D. 637



N.D. 638



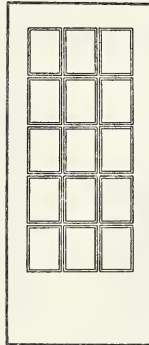
N.D. 640



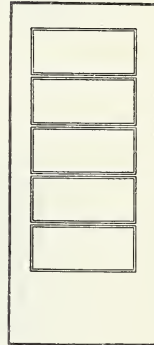
N.D. 641



N.D. 642



N.D. 644



	3' 0" wide and under	Over 3' 0" wide
Stiles.....	5½"	6½"
Top rail.....	6½"	6½"
Bottom rail.....	18½"	18½"

Sticking: Standard.

Door No.	Approximate glass size (for doors with 5½" stiles)		
	Size of door 2' 8" x 6' 8"	Size of door 3' 0" x 6' 8"	Size of door 3' 0" x 7' 0"
N. D. 635.....	22" x 56"	26" x 56"	26" x 60"
N. D. 636.....	6½" x 56"	7½" x 56"	7½" x 60"
N. D. 637.....	10¾" x 13½"	12¾" x 13½"	12¾" x 14½"
N. D. 638.....	5" x 5"*	5" x 5"*	5" x 5"*
N. D. 640.....	10¾" x 10¾"	12¾" x 10¾"	12¾" x 11¾"
N. D. 641.....	7" x 13½"	8½" x 13½"	8½" x 14½"
N. D. 642.....	7" x 10¾"	8½" x 10¾"	8½" x 11¾"
N. D. 644.....	22" x 10¾"	26" x 10¾"	26" x 11¾"

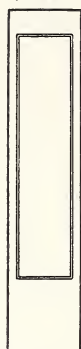
*Corner lights.

Beads for glass included.

See table 1, page 6, for sizes available.

SIDE LIGHTS

S.L. 675



Stiles	2½"
Top rail	6½"
Bottom rail	18½"

Top and bottom rails made same width as in doors with which they are used. Sticking: Standard.

Beads for glass included.

S.L. 676



Stiles	2½"
Top rail	5½"
Lock rail	9⅝"
Bottom rail	9⅝"

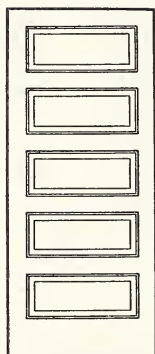
Top and bottom rails made same width as in doors with which they are used. Sticking: Standard.

Beads for glass included.

See table 1, page 7, for sizes available.

STORM DOORS

N.D. 702

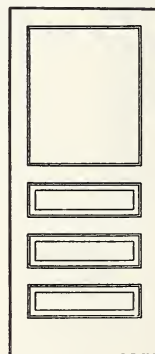


Stiles and top rail	4¾"
Cross rails	4⅝"
Bottom rail	9⅝"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Size of door	
2' 6"	x 6' 7"
2' 8"	x 6' 9"
2' 10"	x 6' 11"
3' 0"	x 7' 1"

N.D. 703



Stiles and top rail	4¾"
Cross rails	4⅝"
Bottom rail	9⅝"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Size of door	Approx. glass size
2' 6" x 6' 7"	21½" x 28"
2' 8" x 6' 9"	23½" x 30"
2' 10" x 6' 11"	25½" x 32"
3' 0" x 7' 1"	27½" x 34"

Beads for glass included.

See table 1, page 7, for sizes available.

CUPBOARD DOORS

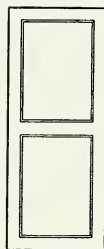
N.D. 710



Stiles and top rail $2\frac{1}{4}''$ or $3\frac{1}{2}''$
 Bottom rail $3\frac{1}{4}''$ or $4\frac{1}{2}''$

3-ply plywood flat panel. Sticking: Standard.

N. D. 711



Stiles, top and cross rail $2\frac{1}{4}''$ or $3\frac{1}{2}''$
 Bottom rail $3\frac{1}{4}''$ or $4\frac{1}{2}''$

3-ply plywood flat panels. Sticking: Standard.

N.D. 712



Stiles, top and cross rails $2\frac{1}{4}''$ or $3\frac{1}{2}''$
 Bottom rail $3\frac{1}{4}''$ or $4\frac{1}{2}''$

Raised panels. Sticking: Standard. Can also be furnished with 3-ply plywood flat panels, if desired.

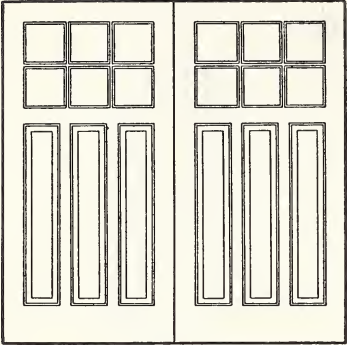
N. D. 712 doors are made as follows:

Up to and including 2' 0" high	2 cross panels.
Over 2' 0" up to and including 3' 0" high ...	3 cross panels.
Over 3' 0" up to and including 4' 0" high	4 cross panels.
Over 4' 0" high	5 cross panels.

See table 1, page 7, for sizes available.

GARAGE DOORS

N.D. 720

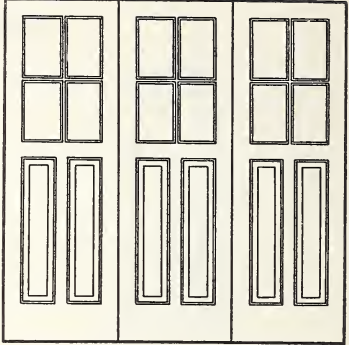


Stiles and top rail	5½"
Cross rail	4⅝"
Mullions	3⅞"
Bottom rail	9⅝"
Vertical and horizontal bars between glass ..	½"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Beads for glass included.

N.D. 721

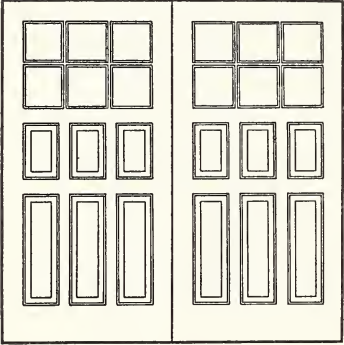


Stiles and top rail	4¾"
Cross rail	4⅝"
Mullions	3⅞"
Bottom rail	9⅝"
Vertical and horizontal bars between glass ..	½"

Raised panels. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Beads for glass included.

N.D. 722

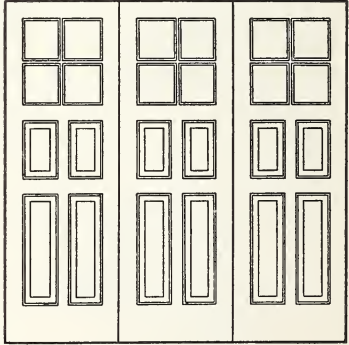


Stiles and top rail	5½"
Cross rails	4⅝"
Mullions	3⅞"
Bottom rail	9⅝"
Vertical and horizontal bars between glass ..	½"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Beads for glass included.

N.D. 723



Stiles and top rail	4¾"
Cross rails	4⅝"
Mullions	3⅞"
Bottom rail	9⅝"
Vertical and horizontal bars between glass ..	½"

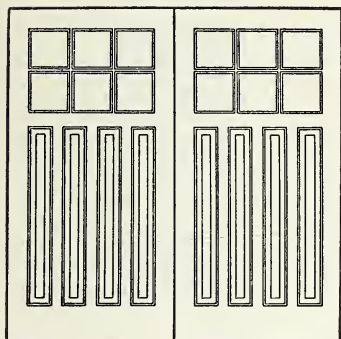
Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Beads for glass included.

See table 1, page 7, for sizes available.

GARAGE DOORS—Continued

N.D. 724

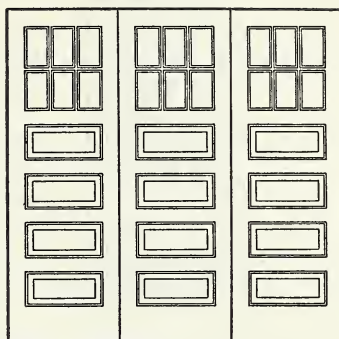


Stiles and top rail	5½"
Cross rail	4⅝"
Mullions	3⅞"
Bottom rail	9⅝"
Vertical and horizontal bars between glass	½"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Beads for glass included.

N.D. 725



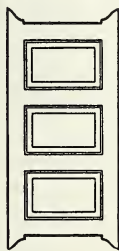
Stiles and top rail	4¾"
Cross rail	4⅝"
Bottom rail	9⅝"
Vertical and horizontal bars between glass	½"

Raised panels 2 sides. Can also be furnished with 3-ply plywood flat panels, if desired. Sticking: Standard.

Beads for glass included.

TOILET DOORS

N.D. 726



Stiles, top and bottom rails	4¾"
Cross rails	4⅝"

Raised panels 2 sides. Sticking: Standard.

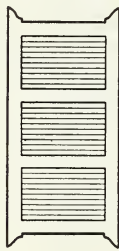
N.D. 727



Stiles, top and bottom rails	3½"
Cross rails and mullions ..	2⅜"

Stationary slats. Sticking: Square.

N.D. 728



Stiles, top and bottom rails	3½"
Cross rails	3⅜"

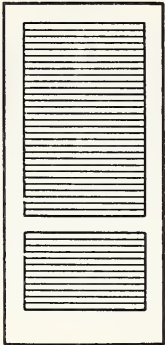
Stationary slats. Sticking: Square.

Toilet doors can be supplied without lugs, if desired.

See table 1, page 7, for sizes available.

BLIND OR SUMMER DOORS

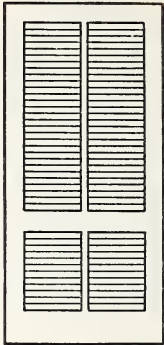
N.D. 730



Stiles and top rail	4¾"
Cross rail	5⅝"
Bottom rail	8"

Stationary slats. Sticking: Square.

N.D. 731

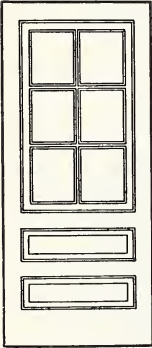


Stiles and top rail	4¾"
Cross rail	5⅝"
Mullions	2⅜"
Bottom rail	8"

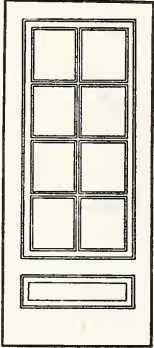
Stationary slats. Sticking: Square.

COMBINATION DOORS

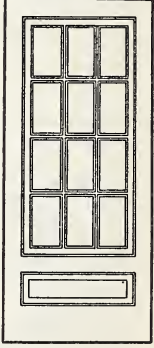
N.D. 736



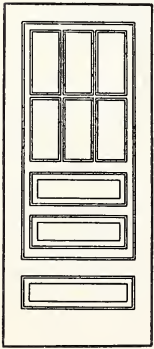
N.D. 737



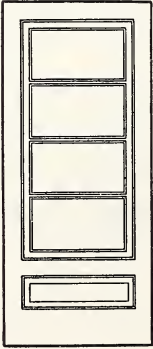
N.D. 739



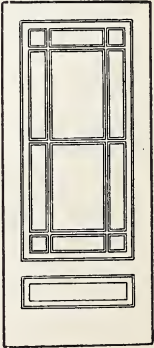
N.D. 749



N.D. 756



N.D. 742



Stiles, top and cross rails	4¼" to 4¾"
Bottom rail	9" or 9⅝"

See table 1, page 7, for sizes available.

PONDEROSA PINE FLUSH DOORS

28. All commercial standard ponderosa pine flush doors shall meet the following requirements:

29. *Material*.—Ponderosa pine used in the manufacture of flush doors shall be properly kiln-dried. A water-resistant glue shall be used.

30. *Workmanship*.—Flush doors shall be well manufactured and flat surfaces shall be smoothly machine-sanded.

31. *Construction*.—The cores of flush doors shall be made of low-density wood blocks S2S not more than $2\frac{1}{2}$ inches wide, of varying lengths. (Low-density woods are those weighing not more than 2,300 pounds per thousand board feet when kiln-dried to a moisture content of 6 percent. The use of sound wormy chestnut shall, however, be permitted.) These blocks shall be bonded together under pressure with a water-resistant glue. No core shall contain more than one species of wood.

31a. *Laying of blocks*.—Doors with vertical block cores shall have the blocks laid up with the grain running parallel and vertically. Stile and rail cores shall be constructed with stile, rail and panel units, each unit made up entirely of blocks. In the stile and rail units the blocks shall be laid up with the grain running parallel and in the direction of the longitudinal dimension of the stile or rail. In the panel units the blocks shall be laid up with the grain running parallel and vertically when the core is to be cross-banded, and parallel and horizontally when no crossbanding is to be used.

31b. *Edge strips*.—The core shall be surrounded with edge strips not less than $\frac{1}{2}$ inch thick after trimming. In lieu of $\frac{1}{2}$ -inch edge strips, the tops and bottoms of the doors shall be given two coats of paint or varnish before leaving the factory. Flush veneered doors may be constructed of stile, rail and panel units, each unit made up entirely of blocks with $\frac{1}{2}$ -inch edge strips on exposed edges of stiles and rails, but not on the ends of stiles, at the option of the manufacturer. Exterior flush doors may be manufactured with wide edge strips to allow cutting the width and height of doors, and they may also be made to permit cutting circular or other irregular top.

31c. *Planing cores*.—The cores after gluing shall be planed smooth to uniform thickness.

31d. *Prefitting*.—When ordered "Prefit," flush doors will be furnished as specified in paragraph 12.

32. *Veneers*.—Crossbanding shall be not less than $\frac{1}{16}$ inch nor more than $\frac{1}{8}$ inch thick. Face veneers shall be from $\frac{1}{16}$ inch to $\frac{1}{4}$ inch thick before sanding, except where V-grooving is required, then $\frac{1}{4}$ inch thick before sanding. The crossbanding and faces shall be bonded to the core and to each other with a water-resistant glue, and assembled under pressure.

33. *Thickness*.—Flush doors shall be $1\frac{3}{4}$ inches thick, and a thickness tolerance of minus $\frac{1}{16}$ inch shall be allowed.

34. *Grading.*—Flush doors shall be of No. 1 grade. Stock shall be clear except that bright sap, light-brown stain, and light-red kiln burn shall be permitted. Faces of all doors shall be smoothly machine-sanded except that doors with face veneers $\frac{1}{16}$ inch thick shall be smoothly belt-sanded. This is not to be interpreted as meaning that the door will be ready for painter's finish.



PLAIN FLUSH



FLUSH "V" GROOVED

Light openings may be cut in these doors to suit the wishes of the purchaser.

See table 1, pages 6 and 7, for sizes available.

INSPECTION

35. All ponderosa pine doors sold as conforming to this commercial standard are subject to inspection in the condition received, and complaints regarding any shipment shall be made within ten (10) days after receipt thereof. Any rejected doors shall be held, properly protected, for a period of thirty (30) days after notice of rejection and pending adjustment.

LABELING

36. In order to assure the purchaser that he is getting ponderosa pine doors of the quality specified, producers may individually, or in concert with their trade associations, issue guarantees, or grade-mark each door by stamp, brand, or label as conforming to this standard. The following wording is recommended for the label:

This GRADE ponderosa pine door complies with all the requirements of Commercial Standard CS120-48, as developed by the trade under the procedure of the National Bureau of Standards and issued by the U. S. Department of Commerce.

.
(Name of manufacturer)

37. Grade marking.

37a. The following grade-marks have been adopted by the National Door Manufacturers Association, Inc., as a means of assuring consumers and distributors that ponderosa pine doors conform to the high standards of quality defined herein.

37b. Consumers and distributors may request that ponderosa pine doors be grade-marked. All ponderosa pine doors guaranteed to conform to the commercial grade rules as set forth herein may be stamped, labeled, or branded with the letters "NDMA," the grade designation, and an identification of the manufacturer by numerals.

37c. The following official grade designations have been approved by the National Door Manufacturers Association.

- (1) For ponderosa pine doors of No. 1 grade:



- (2) For ponderosa pine doors of No. 1F grade:



- (3) For ponderosa pine doors of No. 2 grade:



- (4) For ponderosa pine doors of No. 2F grade:



- (5) For ponderosa pine doors of "Mill Run" grade:



NOMENCLATURE AND DEFINITIONS

38. The definitions below give the meaning of various terms used in this standard:

Bars.—Wood divisions separating lights of glass.

Coped.—The shaping of the ends of rails, mullions, muntins, or bars so that they will cover and fit the contour of the sticking.

Core.—The innermost layer in veneered door construction.

Crossbanding.—The veneer that may be used in the construction of flush doors, which is placed between the core and face veneers with the direction of the grain at right angles to that of the face veneer.

Doors:

Flush door.—Made up of a core, crossbanding, and face veneers, or core and face veneers only.

Panel door.—Made up of stiles, rails, and one or more panels, the stiles and rails forming the frame around the panel.

Sash door.—Same as panel door, except one or more panels are replaced by glass.

Kiln dried.—Dried in a closed chamber in which the removal of moisture is controlled by artificial heat and usually by relative humidity.

Mullion.—An upright, or vertical, bar in a door.

Muntin.—Any short or light bar, either vertical or horizontal, in a door between glass or panels and not extending the full width or length of the door.

Panel, plywood.—A panel made up of core and face veneer.

Pitch seam.—An opening or imperfection parallel to the grain, which is filled with pitch.

Rails.—The cross, or horizontal, pieces of the framework of a door.

Bottom rail.—The bottom cross, or horizontal, piece of a door.

Lock rail.—The wide cross, or horizontal, rail of a door at lock height.

Top rail.—The top cross, or horizontal, piece of a door.

Sticking.—A mold which is worked on the edges of stiles, rails, mullions, muntins, or bars, adjacent to panels or glass.

Stiles.—The upright, or vertical, outside pieces of a door.

Veneered.—Made up of core and face veneers (may include crossbanding in flush doors).

"USE" CLASSIFICATION INDEX

INTERIOR DOORS

Stock number	Description	Page
N. D. 99	3 panel	8
N. D. 100	1 panel	8
N. D. 101	1 panel inner frame	8
N. D. 102	2 regular panel	8
N. D. 106 ^a	4 regular panel	9
N. D. 107 ^a	5 cross panel	9
N. D. 108 ^a	6 panel Colonial	9
N. D. 111 ^a	8 panel Colonial	9

EXTERIOR DOORS

N. D. 110	6 panel Colonial	10
N. D. 112	8 panel Colonial	10
N. D. 500	1 panel & 1 lt.	11
N. D. 501	1 panel & 6 lts., 2 w.	11
N. D. 502	1 panel & 9 lts., 3 w.	11
N. D. 505	1 panel & 12 lts., 3 w.	11
N. D. 506	1 panel & 4 hor. lts.	11
N. D. 507	1 panel & 1 lt.	12
N. D. 508	1 panel & 6 lts., 2 w.	12
N. D. 509	1 panel & 9 lts., 3 w.	12
N. D. 510	1 panel & 8 lts., 2 w.	12
N. D. 511	1 panel & 9 marg. lts.	12
N. D. 512	1 panel & 12 lts., 3 w.	12
N. D. 513	2 hor. pan. & 3 hor. lts.	13
N. D. 514	2 hor. pan. & 1 lt.	13
N. D. 515	2 hor. pan. & 4 lts., 2 w.	13
N. D. 516	2 hor. pan. & 6 lts., 3 w.	13
N. D. 517	2 hor. pan. & 9 lts., 3 w.	13
N. D. 519	2 hor. pan. & 3 vert. lts.	13
N. D. 536	3 hor. pan. & 3 hor. lts.	14
N. D. 537	3 hor. pan. & 1 lt.	14
N. D. 538	3 hor. pan. & 4 lts., 2 w.	14
N. D. 539	3 hor. pan. & 6 lts., 3 w.	14
N. D. 542	3 hor. pan. & 3 vert. lts.	14
N. D. 549	4 hor. pan. & 1 lt.	14
N. D. 559	2 vert. pan. & 1 lt.	15
N. D. 560	2 vert. pan. & 4 lts., 2 w.	15
N. D. 561	2 vert. pan. & 6 lts., 2 w.	15
N. D. 562	2 vert. pan. & 9 lts., 3 w.	15
N. D. 563	2 vert. pan. & 3 hor. lts.	15
N. D. 567	3 panel & 1 lt.	16
N. D. 569	3 panel & 6 lts., 3 w.	16
N. D. 570	3 panel & 9 lts., 3 w.	16
N. D. 571	4 panel & 9 lts., 3 w.	16
N. D. 575	1 panel & 1 lt.	16
N. D. 576	1 panel & 3 vert. lts.	16
N. D. 578	1 panel & 6 lts., 2 w.	16
N. D. 580	1 panel & 9 lts., 3 w.	16
N. D. 582	1 panel & 12 lts., 3 w.	16
N. D. 591	2 vert. pan. & 1 lt.	17
N. D. 592	2 vert. pan. & 3 vert. lts.	17
N. D. 593	2 vert. pan. & 4 vert. lts.	17
N. D. 594	2 vert. pan. & 6 lts., 3 w.	17

^a Also for exterior use.

EXTERIOR DOORS—Continued

Stock number	Description	Page
N. D. 596	4 panel & 2 lts.	17
N. D. 597	4 panel & 3 lts.	17
N. D. 598	4 panel & 4 lts.	17
N. D. 600	4 panel & 4 lts.	18
N. D. 605	14 panel & 4 lts.	18
N. D. 606	4 panel & 3 lts.	18
N. D. 607	4 panel & 4 lts.	18
N. D. 608	6 panel & 3 vert. lts.	18
N. D. 609	6 panel & 9 lts., 3 w.	19
N. D. 612	4 panel & 9 lts., 3 w.	19
N. D. 613	4 panel & 12 lts., 4 w.	19
N. D. 620	1 light	20
N. D. 622 ^b	8 lights, 2 w.	20
N. D. 623 ^b	9 marg. lts.	20
N. D. 625 ^b	10 lights, 2 w.	20
N. D. 626 ^b	12 lights, 3 w.	20
N. D. 627 ^b	15 lights, 3 w.	20
N. D. 630	5 hor. lights	20
N. D. 635	1 light	21
N. D. 636	3 vert. lights	21
N. D. 637	8 lights, 2 w.	21
N. D. 638	9 marg. lights	21
N. D. 640	10 lights, 2 w.	21
N. D. 641	12 lights, 3 w.	21
N. D. 642	15 lights, 3 w.	21
N. D. 644	5 hor. lights	21

SIDE LIGHTS

S. L. 675	1 light	22
S. L. 676	1 panel & 1 light	22

STORM DOORS

N. D. 702	5 hor. panel	22
N. D. 703	3 hor. pan. & 1 lt.	22

CUPBOARD DOORS

N. D. 710	1 panel	23
N. D. 711	2 hor. panel	23
N. D. 712	2 to 5 hor. panel	23

GARAGE DOORS

N. D. 720	3 vert. pan. & 6 lts., 3 w.	24
N. D. 721	2 vert. pan. & 4 lts., 2 w.	24
N. D. 722	6 pan. & 6 lts., 3 w.	24
N. D. 723	4 pan. & 4 lts., 2 w.	24
N. D. 724	4 vert. pan. & 6 lts., 3 w.	25
N. D. 725	4 hor. pan. & 6 lts., 3 w.	25

^b Also for interior use.

TOILET DOORS

Stock number	Description	Page
N. D. 726	3 hor. panel	25
N. D. 727	4 stat. slat panel	25
N. D. 728	3 stat. slat panel	25

BLIND OR SUMMER DOORS

N. D. 730	2 stat. slat panel	26
N. D. 731	4 stat. slat panel	26

COMBINATION DOORS

N. D. 736	2 hor. pan. & 6 lts., 2 w.	26
N. D. 737	1 hor. pan. & 8 lts., 2 w.	26
N. D. 739	1 hor. pan. & 12 lts., 3 w.	26
N. D. 742	1 hor. pan. & 12 marg. lts.	26
N. D. 749	3 hor. pan. & 6 lts., 3 w.	26
N. D. 756	1 hor. pan. & 4 hor. lts.	26

FLUSH DOORS

Flush	Plain flush	28
Flush	V-grooved	28

EFFECTIVE DATE

39. Having been passed through the regular procedure of the Commodity Standards Division, and approved by the acceptors hereinafter listed, this commercial standard was issued by the United States Department of Commerce, effective from November 20, 1948.

Edwin W. Ely,
Chief, Commodity Standards Division

HISTORY OF PROJECT

40. On December 30, 1943, the National Door Manufacturers Association requested the cooperation of the National Bureau of Standards in the establishment of a commercial standard for standard stock ponderosa pine doors. A draft of the proposed standard was submitted on January 29, 1944, to producers, and to a number of technical, distributor, and consumer organizations for their views and comments. All comments were carefully considered at a meeting held in Chicago, Ill., on March 28, 1944. The standard was then adjusted to represent the composite views of all interested groups, and circulated on May 31, 1944, to the trade for written acceptance. Upon receipt of official acceptances, estimated to represent a satisfactory majority of the production by volume, and in the absence of active valid opposition, the standard was promulgated on August 15, 1944, as Commercial

Standard CS120-44, to become effective for new production on September 15, 1944.

FIRST REVISION

41. On April 2, 1946, the chairman of the standing committee recommended the deletion of 18 outmoded or obsolete designs; the inclusion of 2 new designs that had become popular during the preceding 2 years, and an improved listing of the standard sizes, segregated according to designs and use. On approval by the standing committee, this revision was circulated on July 17, 1946, to the trade for written acceptance. Following acceptance by a satisfactory majority, the revision was approved for promulgation as Commercial Standard CS120-46, effective from October 1, 1946.

SECOND REVISION

42. Pursuant to a request from the National Door Manufacturers Association, dated September 29, 1947, and following approval by the standing committee, a second revision was circulated on July 28, 1948, to the trade for consideration. The major changes were the inclusion of requirements for prefitting and for two new grades, namely, No. 1F and No. 2F, and the deletion of "Bead and Cove" and "Ovolo B or Rule Joint" as standard sticking. Also designs N.D. 109 and N.D. 568 were discontinued, and a new design, N.D. 571, was inserted. The success of the revision was announced on October 20, 1948, as Commercial Standard CS120-48.

STANDING COMMITTEE

43. The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Each organization nominated its own representative. Comments concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Commodity Standards Division, National Bureau of Standards, which acts as secretary for the committee.

W. H. SCHWAB (chairman), Huttig Manufacturing Co., Muscatine, Iowa.

R. D. SCAMEHORN, Morgan Co., Oshkosh, Wis.

LEWIS C. PAISLEY, Farley & Loetscher Manufacturing Co., Dubuque, Iowa.

R. J. LILLIBRIDGE, National Door Manufacturers Association, Inc., 712 Transportation Bldg., Washington, D. C.

FRANK STEVENS, Ideal Co., Waco, Tex. (Representing Ponderosa Pine Woodwork.)

CLAUD F. WILSON, Kimball & Wilson, Inc., 2127 Fenkell Ave., Detroit 3, Mich. (Representing Woodwork Jobbers Service Bureau.)

NORMAN B. COVE, Hager & Cove Lumber Co., Lansing, Mich. (Representing Michigan Retail Lumber Dealers Association.)

W. A. COMPTON, Allen Millwork Manufacturing Co., P. O. Box 1101, Shreveport, La. (Representing Southern Sash & Door Jobbers Association.)

EDWARD A. POYNTON, Director of Construction, Office of Indian Affairs, U. S. Department of the Interior, Washington 25, D. C.

HAROLD A. PARKS, Hardware Manufacturers' Statistical Association, 205 Church St. (P. O. Box 1603), New Haven 6, Conn.

C. O. CHRISTENSON, Property Standards Unit, Federal Housing Administration, Washington 25, D. C.

ACCEPTANCE OF COMMERCIAL STANDARD

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date.....

Commodity Standards Division,
National Bureau of Standards,
Washington 25, D. C.

Gentlemen:

We believe that the Commercial Standard CS120-48 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the

Production ¹ Distribution ¹ Purchase ¹ Testing ¹
of standard stock ponderosa pine doors.

We reserve the right to depart from it as we deem advisable.

We understand, of course, that only those articles which actually comply with the standard in all respects can be identified or labeled as conforming thereto.

Signature of authorized officer.....
(In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer.....

Organization
(Fill in exactly as it should be listed)

Street address

City, zone, and State.....

¹ Underscore which one. Please see that separate acceptances are filed for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade associations, trade papers, etc., desiring to record their general support, the words "General support" should be added after the signature.

TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. *Enforcement.*—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices and the like.

2. *The acceptor's responsibility.*—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution, or consumption of the article in question.

3. *The Department's responsibility.*—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is four-fold: first, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. *Announcement and promulgation.*—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active, valid opposition, the success of the project is announced. If, however, in the opinion of the standing committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

ACCEPTORS

The organizations listed below have individually accepted this standard for use as far as practicable in the production, distribution, testing, or purchase of standard stock ponderosa pine doors. In accepting the standard they reserved the right to depart therefrom as they individually deem advisable. It is expected that articles which actually comply with the requirements of this standard in all respects will be regularly identified or labeled as conforming thereto, and that purchasers will require such specific evidence of conformity.

ASSOCIATIONS

(General Support)

American Specification Institute, Chicago, Ill.
Building Officials' Conference of America, Washington, D. C.
Carolina Lumber & Building Supply Association, Charlotte, N. C.
Douglas Fir Plywood Association, Tacoma, Wash.
Greater New York Lumber Industries, Inc., New York, N. Y.
Michigan Retail Lumber Dealers Association, Lansing, Mich.
National Door Manufacturers' Association, Inc., Chicago, Ill.
Prefabricated Home Manufacturers' Institute, Washington, D. C.
Southern Woodwork Association, Atlanta, Ga.
Woodwork Jobbers Service Bureau, Chicago, Ill.

FIRMS AND OTHER INTERESTS

Acme Door Co., Hoquiam, Wash.
Adams, Franklin O., Tampa, Fla.
Adams-Rogers Co., Indianapolis, Ind.
Alpert Woodworking Corp., Brooklyn, N. Y.
Altfillisch, Charles, Decorah, Iowa.
Amarillo Sash & Door Co., Amarillo, Tex.
American Sash & Door Co., Kansas City, Mo.
Andrews, Jones, Biscoe & Goodell, Boston, Mass.
Andrews, C. E., Lumber Co., New Bethlehem, Pa.
Anson & Gilkey Co., Merrill, Wis.
Armstrong-Thielman Lumber Co., Inc., Calumet, Mich.
Ashton, C. J., Co., Detroit, Mich.
Athens Lumber Co., Inc., Athens, Ga.
Augusta Lumber Co., Augusta, Ga.
Barthmaier, Eugene V., Philadelphia, Pa.
Baxter, C. B., & Co., Kansas City, Mo.
Beasley & Sons Co., Nashville, Tenn.
Becker Danowitz Co., Inc., Maspeth, L. I., N. Y.
Bell, C. C., Manufacturing Co., Inc., West Monroe, La.
Belli, Edo J., Chicago, Ill.
Bellman, Gillett & Richards, Toledo, Ohio.
Beuttler, William, Sioux City, Iowa.
Big Four Lumber Co., The, Cleveland, Ohio.
Binda, Bial & Gerhardt, Union City, N. J.
Binswanger & Co., Inc., Richmond, Va.
Birmingham Sash & Door Co., Birmingham, Ala.
Boehm, George A., New York, N. Y.
Bohnhoff Lumber Co., Inc., Los Angeles, Calif.
Bommer Spring Hinge Co., Inc., Brooklyn, N. Y.
(General support.)
Bosman & Casson, Inc., Harrison, N. J.
Brockway-Smith-Haigh-Lovell Co., Boston, Mass.
Brust & Brust, Milwaukee, Wis.
Bryan-Beck, Staunton, Va.
Buckley, F. S., Door Co., San Francisco, Calif.
Bucky, Fred W., Jr., Jacksonville, Fla.
Buell & Co., Dallas, Tex.
Buffalo, City of, Architectural Service, Division of Buildings, Department of Public Works, Buffalo, N. Y.
Buffalo Plywood Corp., Buffalo, N. Y.
Buffelen Manufacturing Co., Tacoma, Wash., and Ft. Worth, Tex.
Builders Supply Co., Bismarck, N. Dak.
Building Service, Inc., Billings, Mont.
Building Supplies Corp., Norfolk, Va.

Bush, Clinton G., Lumber Corp., Huntington Station, Long Island, N. Y.
California Builders Supply Co., Oakland, Calif.
California Door Corp., The, Los Angeles, Calif.
Cameron, William, & Co., Inc., Waco, Tex.
Cameron Lumber Co., Inc., Newburgh, N. Y.
Camlet, J. Thomas, Passaic, N. J.
Cannon & Mullen, Salt Lake City, Utah.
Canton Sash & Door Co., Canton, Ill.
Capital Prefabricators, Inc., Tyler, Tex.
Carlow Co., Los Angeles, Calif.
Carnahan Manufacturing Co., Loogootee, Ind.
Carr, Adams & Collier Co., Dubuque, Iowa.
Carter-Lee Lumber Co., Indianapolis, Ind.
Cellarius, Charles F., Cincinnati, Ohio.
Central Wholesale Co., Inc., Shreveport, La.
Central Woodwork, Inc., Memphis, Tenn.
Chapin Lumber Co., The, Aurora, Colo.
Charlottesville Lumber Co., Inc., Charlottesville, Va.
Chicago & Riverdale Lumber Co., Chicago, Ill.
Chick, John F., & Son, Inc., Madison, N. H.
Cincinnati, City of, Department of Purchasing, Cincinnati, Ohio.
Cleary Millwork Co., Inc., Ansonia, Conn.
Coffin, Ralph V., Seattle, Wash.
Combs Lumber Co., Inc., Lexington, Ky.
Conrad & Cummings, Binghamton, N. Y.
Coolidge, Shepley, Bulfinch & Abbott, Boston, Mass.
Corddry Co., The, Snow Hill, Md.
Cordele Sash, Door & Lumber Co., Cordele, Ga.
Cram & Ferguson, Boston, Mass.
Crawford Manufacturing Co., El Paso, Tex.
Cross, Austin & Ireland Lumber Co., Brooklyn, N. Y.
Crowell & Lancaster, Bangor, Maine.
Curtis Companies, Inc., Chicago, Ill.; Clinton, Iowa; Wausau, Wis.; Lincoln, Nebr.; Sioux City, Iowa; Minneapolis, Minn.; and Topeka, Kans.
Davidson Sash & Door Co., Austin, Tex., and Lake Charles, La.
DeJarnette, Charles Wagner, Des Moines, Iowa.
(General support.)
Delmarva Sash & Door Co., Sudlersville, Md.; Barclay, Md.; Philadelphia, Pa.; and Lancaster, Pa.
Deming & Thompson Co., Inc., Frankfort, Ind.
Derr, Wm. H., Co., Philadelphia, Pa.
Detroit, City of, City Engineer's Office, Detroit, Mich.
Dobbs, A. A., Manufacturing Co., Inc., Orlando, Fla.
Donlin Co., The, St. Cloud, Minn.
Donovan & Kerr, Berkeley, Calif.
Dyke Bros., Little Rock, Ark., and Texarkana, Tex.
Dykes Lumber Co., New York, N. Y.
Edwards Sash, Door & Lumber Co., Tampa, Fla.
Ellis Glazing, Inc., Henryetta, Okla.
Estes Lumber Co., Birmingham, Ala.
Evansville Sash & Door Co., Inc., Evansville, Ind.
Exchange Lumber & Manufacturing Co., Spokane, Wash.
Farley & Loetscher Manufacturing Co., Dubuque, Iowa.
Fink & Schindler Co., The, San Francisco, Calif.
Fischer Lime & Cement Co., Memphis, Tenn.
Flannagan, Eric G., Henderson, N. C.
Flint Lumber Co., Flint, Mich.

- Forks Sash & Door Co., East Grand Forks, Minn.
 Fort Wayne Builders Supply Co., Ft. Wayne, Ind.
 Fort Worth Sash & Door Co., Ft. Worth, Tex.
 Frey Planing Mill Co., The, Louisville, Ky.
 Fuller, W. P., & Co., San Diego, Calif.; Sacramento, Calif.; and Portland, Oreg.
 General Millwork Corp., Utica, N. Y.
 Gibson Door Co., The, Utica, N. Y.
 Goshen Sash & Door Co., Goshen, Ind.
 Grayson Millwork & Supply Co., Inc., Sherman, Tex.
 Great Lakes Sash & Door Co., The, Cleveland, Ohio.
 Greene & Wood, Inc., New Bedford, Mass.
 Green's Ready-Built Homes, Inc., Rockford, Ill.
 Gregg & Son, Inc., Nashua, N. H.
 Grimm, Albert C., Planing Mill, Evansville, Ind.
 Gulf States Plywood Co., New Orleans, La.
 Gunnison Homes, Inc., New Albany, Ind.
 Hager & Cove Lumber Co., Lansing, Mich.
 Hannaford, Samuel, & Sons, Cincinnati, Ohio.
 Haralson & Mott, Ft. Smith, Ark.
 Harbor Plywood Corp. of California, San Francisco, Calif.
 Harbor Plywood Corp., Chicago, Ill., and Jacksonville, Fla.
 Harbor Sales Co., Inc., The, Baltimore, Md.
 Hardwood Products Corp., Neenah, Wis.
 Hartung, F. L., Co., Seattle, Wash.
 Hawkins Lumber & Warehouse Co., Boston, Mass.
 Helfensteller, Hirsch & Watson, St. Louis, Mo.
 Hodgdon, Charles, San Gabriel, Calif.
 Hogan Lumber Co., Oakland, Calif.
 Holsman, Holsman, Klekamp & Taylor, Chicago, Ill.
 Hope, Frank L., San Diego, Calif.
 Houston Ready-Cut House Co., Houston, Tex.
 Houston Sash & Door Co., Houston, Tex.
 Hussey-Williams Co., Inc., Ozone Park, N. Y.
 Huttig Manufacturing Co., Muscatine, Iowa.
 Huttig Sash & Door Co., St. Louis, Mo.; Charlotte, N. C.; Columbus, Ohio; Dallas, Tex.; Jacksonville, Fla.; Knoxville, Tenn.; Louisville, Ky.; Miami, Fla.; and Roanoke, Va.
 Hyde-Murphy Co., Ridgway, Pa.
 Indiana Lumber & Manufacturing Co., Inc., South Bend, Ind.
 Interstate Sash & Door Co., The, Canton, Ohio.
 Iron City Sash & Door Co., Pittsburgh, Pa.
 Ivey, Edwin J., Inc., Seattle, Wash.
 Jacksonville Sash & Door Co., Jacksonville, Fla.
 Johnson & Wimsatt, Inc., Washington, D. C.
 Kaaz Woodwork Co., Inc., The, Leavenworth, Kans.
 Keely, Hal, Plywood Co., Pittsburgh, Pa.
 Keely, S. S., & Son, Philadelphia, Pa.
 Kelley, Frederic P., Millington, N. J.
 Kilham, Hopkins, Greeley & Brodie, Boston, Mass.
 Kimball Lumber Co., Watertown, Mass.
 Krebs, Arthur H., & Co., Springfield, Ill.
 Kullberg Manufacturing Co., Minneapolis, Minn.
 Kyle, Herbert S., Charleston, W. Va.
 Latenser, John, & Sons, Omaha, Nebr.
 Law, Law, Potter & Nystrom, Madison, Wis.
 Le Deit Glass Co., The, San Jose, Calif.
 Lewis Lumber Co., Spring Lake, N. J.
 Lewis Manufacturing Co., Bay City, Mich.
 Loeb, Laurence M., White Plains, N. Y.
 Loetscher & Burch Manufacturing Co., Des Moines, Iowa.
 Long-Bell Lumber Co., The, Kansas City, Mo.
 Louisville Sash & Door Co., Inc., Louisville, Ky.
 Lumber & Millwork Co. of Philadelphia, The, Philadelphia, Pa.
 Lumber Yard Supply Co., Great Falls, Mont.
 Lumbermen's Credit & Warehouse Co., Kalamazoo, Mich.
 Lumbermen's Door & Trim Co., The, Cleveland, Ohio.
 Lyman-Hawkins Lumber Co., The, Akron, Ohio.
 Lyon-Gray Lumber Co., Dallas, Tex.
 M & M Wood Working Co., Portland, Oreg. (General support.)
- Madison Lumber Co. (Dendinger, Inc., Owner), New Orleans, La.
 Mahoney Sash & Door Co., The, Canton, Ohio.
 Markland, M. B., Contracting Co., Atlantic City, N. J.
 Marquart Millwork Co., Oshkosh, Wis.
 Martin, Edgar, Chicago, Ill.
 Martin Lumber Co., Springfield, Mass.
 Martin Millwork Co., Raleigh, N. C.
 Maryland Lumber Co., The, Baltimore, Md.
 Mason City Millwork Co., Mason City, Iowa.
 Mason, George D., & Co., Detroit, Mich.
 Mauk Seattle Lumber Co., Seattle, Wash.
 McGuinn, N. J., Lumber Co., Inc., Charlotte, N. C.
 McPhillips Manufacturing Co., Inc., Mobile, Ala.
 Memphis Sash & Door Co., Memphis, Tenn.
 Merritt Lumber Yards, Inc., Reading, Pa.
 Metropolitan Millwork Co., Brooklyn, N. Y.
 Midland Building Industries, Inc., Indianapolis, Ind.
 Miller & Vrydagh, Terre Haute, Ind.
 Minot Builders Supply Co., Minot, N. Dak.
 Mooser, William, San Francisco, Calif.
 Morgan Co., Oshkosh, Wis.
 Morgan Millwork Co., The, Baltimore, Md.
 Morgan Sash & Door Co., Chicago, Ill.
 Morrison-Merrill & Co., Salt Lake City, Utah; Reno, Nev.; and Pocatello, Idaho.
 Mueller, Hair & Hetterich, Hamilton, Ohio.
 Muhlenberg Bros., Reading, Pa.
 Mutual Millwork Co., Orlando, Fla.
 Nash, Robinson & Co., Waco, Tex.
 National Manufacturing Co., Sterling, Ill.
 National Plywood Co., Inc., New York, N. Y.
 National Plywoods, Inc., Chicago, Ill.
 Neal-Blun Co., Savannah, Ga.
 Neal Millwork & Supply Co., Oklahoma City, Okla.
 Newton Lumber & Manufacturing Co., Colorado Springs, Colo.
 Nielsen Construction Co., Harrisonburg, Va.
 Northern Sash & Door Co., Hawkins, Wis.
 Northside Building Supply Co., Doraville, Ga.
 Nurenburg, W. S., Ft. Worth, Tex.
 Nuroco Woodwork Manufacturing Division, New Rochelle Coal & Lumber Co., New Rochelle, N. Y.
 O & N Lumber Co., Menomonee, Wis.
 Officer, Gwynn, Lafayette, Calif.
 Oklahoma Sash & Door Co., The, Oklahoma City, Okla.
 Pacific Mutual Door Co., Baltimore, Md., and Chicago, Ill.
 Paducah Sash & Door Co., Inc., Paducah, Ky.
 Palmetto Sash & Door Co., Orangeburg, S. C.
 Patten-Blinn Lumber Co., Los Angeles, Calif.
 Pease Woodwork Co., Inc., Cincinnati, Ohio.
 Pepper, George W., Jr., Philadelphia, Pa.
 Portsmouth Lumber Corp., Portsmouth, Va.
 Price Lumber & Manufacturing Co., Fremont, Ohio.
 Quigley, J. R., Co., Gloucester City, N. J.
 Racine Wood Products Co., Racine, Wis.
 Radford & Sanders, Inc., Baltimore, Md.
 Ramsey, A. H., & Sons, Inc., Miami, Fla.
 Resnikoff, Abraham, New York, N. Y.
 Rinheimer Bros. Manufacturing Co., Elgin, Ill.
 Ritchie, James H., and Associates, Boston, Mass.
 Roach & Musser Co., Muscatine, Iowa.
 Roberson, A., & Son, Inc., Binghamton, N. Y.
 Rock Island Lumber Co., Cleveland, Ohio.
 Rock Island Millwork Co., Rock Island, Ill.
 Rockwell Bros. & Co., Houston, Tex.
 Rockwell Manufacturing Co. of Wisconsin, The, Randolph, Wis.
 Rogers, T. H., Lumber Co., The, Oklahoma City, Okla.
 Rounds & Porter Co., Wichita, Kans.
 Royal Oak Wholesale Co., Royal Oak, Mich.
 Rudinger, C. R., Inc., South Kearny, N. J.
 Ruggles, Carlos, Lumber Co., Springfield, Mass.
 Rust Sash & Door Co., Kansas City, Mo.

Sanders Bros. Manufacturing Co., Ottawa, Ill.
 Santa Fe Builders Supply Co., Santa Fe, N. Mex.
 Scheidegger Woodwork Supply Co., Chattanooga, Tenn.
 Segelke & Kohlhaus Co., La Crosse, Wis.
 Semling-Menke Co., Inc., Merrill, Wis.
 Shenk, Henry Co., Erie, Pa.
 Silbernagel, George, & Sons Co., Wausau, Wis.
 Simons, Inc., Minneapolis, Minn.
 Snell Sash & Door Co., St. Paul, Minn., and Omaha, Nebr.
 Sothman Co., The, Grand Island, Nebr.
 Southern Counties Gas Co. of California, Los Angeles, Calif.
 Southern Millwork & Supply Co., Lafayette, La.
 Southwestern Sash & Door Co., Albuquerque, N. Mex.
 Southwestern Sash & Door Co., El Paso, Tex., and Joplin, Mo.
 Spokane Sash & Door Co., Spokane, Wash.
 Spokane Woodworking Co., Spokane, Wash.
 Standard Lumber Co., Pine Bluff, Ark.
 Staub & Rather, Houston, Tex.
 Stillwater Manufacturing Co., The, Stillwater, Minn.
 Stivers, A. G., Lumber & Supply Co., Chattanooga, Tenn.
 Stoetzel, Ralph, Chicago, Ill.
 Stravs, Carl B., Minneapolis, Minn.
 Stricklin Lumber Co., Florence, Ala.
 Sturtevant Millwork & Lumber Corp., Bethpage, L. I., N. Y.
 Swan Lake Moulding Co., Klamath Falls, Oreg.
 Sweetwater Sash & Door Co., Sweetwater, Tex.
 Taylor, Ellery Kirke, Haddonfield, N. J.
 Taylor Sash & Door Co., Pensacola, Fla.
 Teachout Sash, Door & Glass Co., The, Detroit, Mich.
 Tennessee Glass Co., Inc., Nashville, Tenn.
 Texas Sash & Door Co., Ft. Worth, Tex.
 Theiling-Lothman Manufacturing Co., St. Louis, Mo.
 Thompson Lumber Co., Minneapolis, Minn.
 Thorne, Henry Calder, Ithaca, N. Y.
 Throop-Martin Co., The, Columbus, Ohio.
 Timberline, Inc., Kansas City, Mo.
 Trexler Lumber Co., Allentown, Pa.
 Tulane Hardwood Lumber Co., Inc., New Orleans, La.
 Underwood Coal & Supply Co., Mobile, Ala.
 Valdosta Builders Supply Co., Valdosta, Ga.

Vaughan, George C., & Sons, Houston and San Antonio, Tex.
 Velde Lumber Co., Pekin, Ill.
 Victoria Sash & Door Co., Inc., Shreveport, La.
 Villaume Box & Lumber Co., The, St. Paul, Minn.
 Vogel, Willis A., Toledo, Ohio.
 Wabash Screen Door Co., The, Chicago, Ill.
 Wahlfeld Manufacturing Co., Peoria, Ill.
 Walling Sash & Door Co., Wichita, Kans.
 Wanke Panel Co., Portland, Oreg.
 Washington Woodworking Co., Inc., Washington, D. C.
 Watertown Sash & Door Co., Watertown, S. Dak.
 Weinell, A. F., Lumber Co., Columbia, Ill.
 Welch, Carroll E., Huntington, N. Y.
 West, Albert E., Boston, Mass.
 West Coast Screen Co., Los Angeles, Calif.
 West Kittanning Lumber Co., Kittanning, Pa.
 Western Door & Sash Co., Oakland, Calif.
 Western Pine Manufacturing Co., Ltd., Spokane, Wash.
 Wheeler Osgood Co., The, Tacoma, Wash.
 Whissel, L. N., Lumber Co., Inc., Buffalo, N. Y.
 White Pine Sash Co., Spokane, Wash., and Chicago, Ill.
 Whitmer Jackson Co., The, Buffalo, N. Y.
 Wilbur Lumber Co., Waukesha, Wis.
 Willson, Fred F., Bozeman, Mont.
 Wilson, W. A., & Sons, Inc., Wheeling, W. Va.
 Wolverine Shingle & Lumber Co., Detroit, Mich.
 Zimmerman, A. C., Los Angeles, Calif.

U. S. GOVERNMENT

Air Force Base Area "B," Air Installation "B" & "D," TSWPE, Dayton, Ohio.
 Army, Department of the, Standards Branch, Logistics Division, Washington, D. C.
 Federal Works Agency, Public Buildings Administration, Washington, D. C. (General support.)
 Housing & Home Finance Agency, Washington, D. C. (General support.)
 Interior, Department of the, Bureau of Indian Affairs, Washington, D. C.
 Justice, Department of, Bureau of Prisons, Construction Division, Washington, D. C.
 Naval Air Station, U. S., Anacostia, Washington, D. C.
 Naval Base, Public Works Department, Philadelphia, Pa.
 Navy, Department of, Public Works Department, New York, N. Y.

COMMERCIAL STANDARDS

CS No.	Item
0-40.	Commercial standards and their value to business (third edition).
1-42.	Clinical thermometers (third edition).
2-30.	Mopsticks.
3-40.	Stoddard solvent (third edition).
4-29.	Staple porcelain (all-clay) plumbing fixtures.
5-46.	Pipe nipples, brass, copper, steel, and wrought iron (second edition).
6-31.	Wrought-iron pipe nipples (second edition). Superseded by CS5-46.
7-29.	Standard weight malleable iron or steel screwed unions.
8-41.	Gage blanks (third edition).
9-33.	Builders' template hardware (second edition).
10-29.	Brass pipe nipples. Superseded by CS5-46.
11-41.	Moisture regains of cotton yarns (second edition).
12-48.	Fuel oils (sixth edition).
13-44.	Dress patterns (fourth edition).
14-43.	Boys' button-on waists, shirts, junior and sport shirts (made from woven fabrics) (third edition).

CS No.	Item
15-46.	Men's pajama sizes (made from woven fabrics) (third edition).
16-29.	Wall paper.
17-47.	Diamond core drill fittings (fourth edition).
18-29.	Hickory golf shafts.
19-32.	Foundry patterns of wood (second edition).
20-47.	Staple vitreous china plumbing fixtures (fourth edition).
21-39.	Interchangeable ground-glass joints, stopcocks, and stoppers (fourth edition).
22-40.	Builders' hardware (nontemplate) (second edition).
23-30.	Feldspar.
24-43.	Screw threads and tap-drill sizes.
25-30.	Special screw threads. Superseded by CS24-43.
26-30.	Aromatic red cedar closet lining.
27-36.	Mirrors (second edition).
28-46.	Cotton fabric tents, tarpaulins and covers (second edition).
29-31.	Staple seats for water-closet bowls.
30-31.	Colors for sanitary ware. (Withdrawn as commercial standard, March 15, 1948.)

CS No.	Item	CS No.	Item
31-38.	Wood shingles (fourth edition).	78-40.	Ground-and-polished lenses for sun glasses (second edition) (published with CS79-40).
32-31.	Cotton cloth for rubber and pyroxylin coating.	79-40.	Blown, drawn, and dropped lenses for sun glasses (second edition) (published with CS78-40).
33-43.	Knit underwear (exclusive of rayon) (second edition).	80-41.	Electric direction signal systems other than semaphore type for commercial and other vehicles subject to special motor vehicle laws (after market).
34-31.	Bag, case, and strap leather.	81-41.	Adverse-weather lamps for vehicles (after market).
35-47.	Hardwood plywood (third edition).	82-41.	Inner-controlled spotlamps for vehicles (after market).
36-33.	Fourdrinier wire cloth (second edition).	83-41.	Clearance, marker, and identification lamps for vehicles (after market).
37-31.	Steel bone plates and screws.	84-41.	Electric tail lamps for vehicles (after market).
38-32.	Hospital rubber sheeting.	85-41.	Electric license-plate lamps for vehicles (after market).
39-37.	Wool and part wool blankets (second edition). (Withdrawn as commercial standard, July 14, 1941.)	86-41.	Electric stop lamps for vehicles (after market).
40-32.	Surgeons' rubber gloves.	87-41.	Red electric warning lanterns.
41-32.	Surgeons' latex gloves.	88-41.	Liquid burning flares.
42-43.	Structural fiber insulating board (third edition).	89-40.	Hardwood stair treads and risers.
43-32.	Grading of sulphonated oils.	90-	(Reserved for power shovels and cranes).
44-32.	Apple wraps.	91-41.	Factory-fitted Douglas fir entrance doors.
45-48.	Douglas fir plywood (eighth edition).	92-41.	Cedar, cypress and redwood tank stock lumber.
46-40.	Hosiery lengths and sizes (third edition).	93-41.	Portable electric drills (exclusive of high frequency).
47-34.	Marking of gold-filled and rolled-gold-plate articles other than watches.	94-41.	Calking lead.
48-40.	Domestic burners for Pennsylvania anthracite (underfeed type) (second edition).	95-41.	Lead pipe.
49-34.	Chip board, laminated chip board, and miscellaneous boards for bookbinding purposes.	96-41.	Lead traps and bends.
50-34.	Binders board for bookbinding and other purposes.	97-42.	Electric supplementary driving and passing lamps for vehicles (after market).
51-35.	Marking articles made of silver in combination with gold.	98-42.	Artists' oil paints.
52-35.	Mohair pile fabrics (100-percent mohair plain velvet, 100-percent mohair plain frieze, and 50-percent mohair plain frieze).	99-42.	Gas floor furnaces—gravity circulating type.
53-35.	Colors and finishes for cast stone.	100-47.	Porcelain-enameled steel utensils (third edition).
54-35.	Mattresses for hospitals.	101-43.	Flue-connected oil-burning space heaters equipped with vaporizing pot-type burners.
55-35.	Mattresses for institutions.	102-	(Reserved for Diesel and fuel-oil engines).
56-49.	Oak flooring (third edition).	103-48.	Rayon jacquard velour (with or without other decorative yarn) (second edition).
57-40.	Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings (second edition).	104-46.	Warm-air furnaces equipped with vaporizing pot-type oil burners (second edition).
58-36.	Woven elastic fabrics for use in overalls (overall elastic webbing).	105-48.	Mineral wool insulation for low temperatures (second edition).
59-44.	Textiles—testing and reporting (fourth edition).	106-44.	Boys' pajama sizes (woven fabrics) (second edition).
60-48.	Hardwood dimension lumber (second edition).	107-45.	Commercial electric-refrigeration condensing units (second edition). (Withdrawn as commercial standard September 4, 1947.)
61-38.	Wood-slat venetian blinds.	108-43.	Treading automobile and truck tires.
62-38.	Colors for kitchen accessories.	109-44.	Solid-fuel-burning forced-air furnaces.
63-38.	Colors for bathroom accessories.	110-43.	Tire repairs—vulcanized (passenger, truck, and bus tires).
64-37.	Walnut veneers.	111-43.	Earthenware (vitreous-glazed) plumbing fixtures.
65-43.	Methods of analysis and of reporting fiber composition of textile products (second edition).	112-43.	Homogeneous fiber wallboard.
66-38.	Marking of articles made wholly or in part of platinum.	113-44.	Oil-burning floor furnaces equipped with vaporizing pot-type burners.
67-38.	Marking articles made of karat gold.	114-43.	Hospital sheeting for mattress protection.
68-38.	Liquid hypochlorite disinfectant, deodorant, and germicide.	115-44.	Porcelain-enameled tanks for domestic use.
69-38.	Pine oil disinfectant.	116-44.	Bituminized-fiber drain and sewer pipe.
70-41.	Phenolic disinfectant (emulsifying type) (second edition) (published with CS71-41).	117-44.	Mineral wool; blankets, blocks, insulating cement, and pipe insulation for heated industrial equipment.
71-41.	Phenolic disinfectant (soluble type) (second edition) (published with CS70-41).	118-44.	Marking of jewelry and novelties of silver.
72-38.	Household insecticide (liquid spray type).	(E) 119-45. ¹	Dial indicators (for linear measurements).
73-48.	Old growth Douglas fir, Sitka spruce, and Western hemlock standard stock doors (fourth edition).	120-48.	Standard stock ponderosa pine doors (third edition).
74-39.	Solid hardwood wall paneling.	121-45.	Women's slip sizes (woven fabrics).
75-42.	Automatic mechanical draft oil burners designed for domestic installations (second edition).		
76-39.	Hardwood interior trim and molding.		
77-48.	Enameled cast-iron plumbing fixtures (second edition).		

CS No.	Item	CS No.	Item
122-45.	Western hemlock plywood.	141-47.	Sine bars, blocks, plates, and fixtures.
123-45.	Grading of diamond powder.	142-47.	Automotive lifts.
(E) 124-45. ¹	Master disks.	143-47.	Standard strength and extra strength perforated clay pipe.
125-47.	Prefabricated homes (second edition).	144-47.	Formed metal porcelain enameled sanitary ware.
126-45.	Tank mounted air compressors.	145-47.	Testing and rating hand-fired hot water supply boilers.
127-45.	Self-contained mechanically refrigerated drinking water coolers.	146-47.	Gowns for hospital patients.
128-45.	Men's sport shirt sizes—woven fabrics (other than those marked with regular neckband sizes).	147-47.	Colors for molded urea plastics.
129-47.	Materials for safety wearing apparel (second edition).	148-48.	Men's circular flat and rib knit rayon underwear.
130-46.	Color materials for art education in schools.	149-48.	Utility type house dress sizes.
131-46.	Industrial mineral wool products, all types—testing and reporting.	150-48.	Hot-rolled rail steel bars (produced from T-section rails).
132-46.	Hardware cloth.	151-48.	Body measurements for the sizing of apparel for infants, babies, toddlers, and children (for the knit-underwear industry).
133-46.	Woven wire netting.	152-48.	Copper naphthenate wood-preservative.
134-46.	Cast aluminum cooking utensils (metal composition).	153-48.	Body measurements for the sizing of apparel for girls (for the knit-underwear industry).
135-46.	Men's shirt sizes (exclusive of work shirts).	154- .	(Reserved for wire rope.)
136-46.	Blankets for hospitals (wool, and wool and cotton).	155-49.	Body measurements for the sizing of apparel for boys (for the knit-underwear industry).
137-46.	Size measurements for men's and boys' shorts (woven fabrics).	156-49.	Colors for polystyrene plastics.
138-47.	Insect wire screening.	157-49.	Ponderosa pine and sugar pine plywood.
139-47.	Work gloves.	158-49.	Model forms for girls' apparel.
140-47.	Testing and rating convectors.		

¹ Where "(E)" precedes the CS number, it indicates an emergency commercial standard, drafted under war conditions with a view toward early revision.

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the Commodity Standards Division, National Bureau of Standards, Washington 25, D. C.

